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U. S. DEPARTMENT OF LABOR
CHILDREN'S BUREAU
JULIA C. LATHROP, Chief

Child Labor in Warring Countries

A Brief Review of Foreign Reports

By

ANNA ROCHESTER

INDUSTRIAL SERIES No. 4
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U. S. DEPARTMENT OF LABOR
CHILDREN'S BUREAU
JULIA C. LATHROP, Chief

Child Labor in Warring Countries

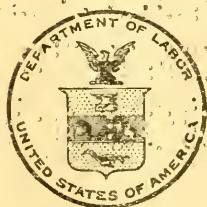
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LETTER OF TRANSMITTAL.

U. S. DEPARTMENT OF LABOR,
CHILDREN'S BUREAU,
Washington, July 3, 1917.

SIR: Immediately after the declaration of war by the United States the Children's Bureau began a review of such foreign official documents concerning child welfare as were available in this country in order that the experience of the belligerent nations might be placed at the disposal of all who are concerned with the protection of children in the United States. The present report, one of the units in this study, indicates that the countries whose standards of school attendance and protection from premature and exhausting employment are most nearly comparable with our own have maintained their standards without change during three years of war. Notable among them are New Zealand and certain Canadian Provinces and Australian States. The lengthening of hours, which has elsewhere been permitted as a war measure, has so seriously threatened the health and efficiency of the workers that the Governments of England, France, and Italy have restored in part their prewar standards. Quite as significant is the emphasis which has been placed on a reorganization of adolescent education in England and France as essential to the economic welfare of these countries after the war. It is hoped that this report will call attention to the growing concern in the warring countries for the welfare of children and the earnest efforts now being made in the midst of war to improve their condition, and that it will aid in showing not only the importance of maintaining here all the present industrial protection afforded to women and children but of carrying this protection forward notwithstanding war conditions.

The text of the report has been prepared by Miss Anna Rochester of the Children's Bureau. The research work has been done by several persons who have reviewed the material for the various countries, as follows: France, Miss Rochester; Germany, Miss Alice P. Gannett; Great Britain, Miss Louise Moore; Italy, Miss Mary D. Hopkins; Netherlands, Mrs. Karl de Haas and Mr. J. H. Muurling; Russia, Miss Marie D. Hourwich and Miss Anna Kalet. The Bulletin of the International Labor Office, which was the starting point of

the study, was reviewed by Miss Ella A. Merritt. Special acknowledgment should be made of the cordial cooperation of the officials of the Library of Congress in giving the bureau ready access to the valuable material which the Library has received. The bureau is indebted to the Federal Trade Commission for the use of certain British and French reports.

JULIA C. LATHROP, *Chief.*

HON. WILLIAM B. WILSON,
Secretary of Labor.

CHILD LABOR IN WARRING COUNTRIES.

INTRODUCTION.

The first effect in every country of the European war was a period of widespread unemployment accompanied by tremendous pressure in the few industries which were immediately necessary for war supplies. The activities of labor exchanges were extended to facilitate the distribution of labor, and in many places labor restrictions were relaxed, since this was thought necessary to intensify production. Experience proved, however, that the relaxing of standards failed of its purpose. In England and France and more recently in Italy, after the redistribution of labor had been effected and an actual shortage of workers had replaced the earlier unemployment, definite steps were taken by the Governments to restore the provisions of the labor law, because they were found to be essential not only to the conservation of the available workers but to the quantity and the quality of their output.

On the other hand some countries resisted from the beginning of the war any such breaking down of the labor law and maintained, or even advanced, their labor restrictions. No special exemptions are reported from Hungary; and, with the exception of a slight lengthening of legal overtime in the Australian State of Victoria, school-attendance and child-labor laws have not been relaxed in any part of Canada, Australia, or New Zealand. They have been strengthened during the war in South Australia and in four Canadian Provinces. In England and France also official proposals have been made to reorganize and extend secondary education in ways which would directly affect the employment of children and raise the standard of their protection.

Switzerland toward the end of 1915 defined more exactly the exemptions which might be granted under the special war decree of 1914 and made it plain that night work by girls under 18 and boys under 16 would not be permitted and that the 14-year age limit for employment must be observed.

In other countries, where standards have been relaxed and no official action has been taken toward their restoration, protests and agitation by labor organizations, physicians, or social workers are reported. In Germany and in Austria-Hungary hours of labor have been shortened in certain specified industries for the sake of conserving mate-

rials. Thus, Germany in 1915 forbade night work in bakeries;¹ limited the work in spinning, weaving, and hosiery mills to 10 hours a day and 5 days a week;² prohibited the use of power machinery for cutting textiles; and permitted the use of power machinery for sewing, buttonholing, etc., only 30 hours a week.³ Hungary has forbidden night work in bakeries.⁴ Austria has withdrawn the power to grant exemptions for overtime and night work in establishments using cotton, except on urgent orders for the army.⁵

In general the relaxing of labor standards during the war has fallen into three classes.⁶

First and most general is the lengthening of hours of work, including night work and Sunday work and more or less unlimited overtime. Some such exemptions have been reported from England, France, Italy, Germany, Austria (but not Hungary), Switzerland, Holland, and Russia. The Australian Province, Victoria, in 1914 lengthened slightly the amount of overtime permitted to women and girls, but Victoria's present limit for special overtime is shorter than that fixed in times of peace in the European countries.

Second is a lowering of the age requirement for children entering industry. In this Italy has made the most general provision, permitting boys of 12 whose fathers are soldiers to go to work without regard to the educational standard formerly required of all boys under 15 years of age. France in 1915 admitted children of 11 years and 6 months, instead of 12 years, to the July examination for primary certificate which would exempt from school attendance. In England local authorities in certain districts have been excusing children from the requirements of the school-attendance law for agriculture and other "suitable" employments. In Germany special exemptions from the age limit for child labor are provided for in the emergency law of August 4, 1914, but how generally they have been granted does not appear.

In the third place women and young persons have been employed in dangerous, injurious, or heavy work formerly prohibited by law. The war legislation in Germany and Russia, for example, specifically provided for the granting of permission to women and young persons to work underground in coal mines. The under secretary of arms and munitions in France authorized the employment of girls under 18 in Government powder plants, from which they had formerly been excluded. In addition women have been employed in some occupations in which men only were formerly engaged and for which

¹ *Soziale Praxis*, Sept. 9, 1915, p. 1176.

² *Bulletin of the International Labor Office*, Vol. X, p. 232; *Soziale Praxis*, Nov. 11, 1915, p. 139.

³ *Soziale Praxis*, Jan. 27, 1916, p. 401.

⁴ *Bulletin of the International Labor Office*, Vol. XV (German edition), No. 10, 1916, p. 291.

⁵ See p. 27.

⁶ This material does not include any discussion of wages or of the methods of settlement for industrial disputes.

little or no protection was provided by law. Again, in some cases new dangers have developed for which former laws made no specific provision.

Quite as important as the temporary granting of exemptions is the postponement of laws which had been passed before the war but had not yet become effective. Conspicuous examples are the Federal factory act in Switzerland which had been passed in June, 1914, and awaited the word of the Federal Council to supersede the former law;¹ the conventions of Berne regarding night work of young persons and hours of labor for women and the use of white phosphorus which had not taken effect in Italy when the war began;² and the decree limiting the hours of labor in iron and steel industries in Germany.³

In considering the labor standards of belligerent nations during the war, it should be remembered that these standards in European countries were in time of peace lower than those accepted by public opinion and by legislation in this country. It is significant, moreover, that the British colonies which have maintained or advanced their labor standards in war time have, alone among the belligerent nations, enforced in time of peace restrictions of hours for women and children which are fairly comparable with the standards of the Federal child-labor law and the laws affecting women in the more advanced States of this country.

The point which does stand out unmistakably from the foreign experience is the general realization that the labor standards achieved in time of peace are none too high to promote the efficiency of work, the intensity of output, and the general level of health which are absolutely essential to the nation's welfare in war time.

EXTENT OF THE PROBLEM.

The disorganization of industry and the exceptional labor conditions which have been permitted would have seriously affected the welfare of women and children even if there had been no increase in the number at work, since even before the war they were employed extensively in the European countries. But in addition new workers have everywhere been drawn into industry during the war.

In England and Wales in 1911 more than 4,800,000 women and girls were employed. This was about one-third (32.5 per cent) of the total female population 10 years of age and over.⁴ The number of children under 14 years of age reported at work was 146,417. Of these, 10,424 were employed in agriculture.⁵ There were 34,152

¹ Bulletin of the International Labor Office, Vol. IX, p. 269, and Vol. XI, p. 55. This law was not yet in effect on Dec. 6, 1915.

² La Confederazione del Lavoro, Milan, Apr. 16, 1915, p. 111.

³ Soziale Praxis, Nov. 11, 1915, p. 139.

⁴ Great Britain Board of Trade (Department of Labor Statistics), Seventeenth Abstract of Labor Statistics of the United Kingdom, pp. 292, 306.

⁵ Ibid., p. 318.

half-timers, children under 14 who attended school part of the day and worked part of the day.¹ The whole number of boys and girls in Great Britain 10 years of age and less than 15 was 3,499,688.²

In France in 1911 more than seven and a half million women and girls were employed, 38.7 per cent of the total female population of all ages. Nearly three and a quarter million of them were in agriculture and over two and a half million in occupations classified as industry. Of the 3,292,502 children 10 to 14 years of age 657,425 were at work, and about half of these working children were in agriculture.³ For the same year it is reported that 336,040 boys and girls 286,578 under 18 years of age were employed in occupations subject to inspection by the ministry of labor; the total number of young people 12 to 18 years of age was just short of four million.⁴

The number of women and girls over 16 years of age at work in Germany in 1907 was about seven and one-half million, 37.9 per cent of the total number in the Empire. A little more than four millions of those employed were engaged in agriculture. Of the 2,441,976 boys and girls 14 but under 16 years of age, 60.1 per cent, or 1,468,982, were employed, including 666,673 agricultural workers. Of the 20,168,636 children under 14, 183,428 boys and 113,358 girls were employed; and 68.7 per cent of these working boys and 81.2 per cent of these working girls were in agriculture. In addition, 1,060,812 women 16 years of age and over and 188,571 girls below that age were employed as household servants.⁵

Even in Italy, where it is generally supposed that women are averse to industrial employment, the figures for 1911 show that out of a total of 13,680,201⁶ girls and women above 10 years of age, 1,402,362 were then employed in industry and nearly three millions were working in agriculture.⁷ Of the 1,861,727 boys 10 to 15 years of age, more than half were at work either in industry or in agriculture.⁸

In the United States there was a marked increase between 1900 and 1910 in the percentage of women employed, and the latter census reports that 23.4 per cent of the thirty-four and a half million women and girls over 10 years of age were at work. Of the five and one-half million boys 10 to 15 years of age in 1910 in this country 1,353,139 were at work.⁸

¹ Final Report of the Great Britain Departmental Committee on Juvenile Education in Relation to Employment after the war, p. 31.

² Great Britain Board of Trade (Department of Labor Statistics), Seventeenth Abstract of Labor Statistics of the United Kingdom, p. 292. The number of working children 14 years old is not shown, so the numbers of working children (under 14) and of all children 10 to 14 inclusive can not be compared.

³ Ministère du Travail et de la Prévoyance Sociale, Résultats statistiques du recensement général de la population effectué le 5 mars 1911, Tome I, Deuxième Partie, p. 89; Troisième Partie, pp. 11, 70, 71.

⁴ Ministère du Travail et de la Prévoyance Sociale, Annuaire statistique, 1912, p. 119.

⁵ Statistik des Deutschen Reichs, 1910, vol. 203, p. 2 ff.

⁶ Census of June 10, 1911.

⁷ Annuario Statistico Italiano, 2d series, Vol. IV, 1914, pp. 49, 54.

⁸ Thirteenth Census of the United States, 1910, Vol. IV, p. 70.

While these figures can not be used for a comparison of different countries because of variations in the bases of the statistics, they do unmistakably indicate a longer period of education for young people and a less general employment of women in industry in the United States than in Europe.

Few figures are available to show how many more women and children have been drawn into gainful employment during the war by the extraordinary demand for labor which is reported for certain occupations in every country. From France,¹ Germany,² and Italy³ come reports of a great increase in home work, with its customary evils of long hours and low wages, in connection with army contracts for clothing and other supplies; and home work almost invariably includes the employment of children.

In all European countries the demand for children and women in agricultural work has been very great. Furloughs from school for a limited period are permitted by the school-attendance laws in France and Holland. In Russia the movement for compulsory school attendance which was under way before the war has been seriously hampered and the attendance of children who have been enrolled is reported to be more irregular than usual because of work they have to do at home and in the fields.⁴ In England certain exemptions are permitted by law and others have been granted at the discretion of the authorities. The actual number of children engaged in agricultural work can not be estimated for any country.

An interesting side light on what agricultural employment of children may mean comes from Russia, where some 600 refugee children from 13 to 16 years of age were organized in colonies by an agency of the city council of Moscow for the double purpose of helping the peasants in their summer work in the fields and of saving the children from the harmful influences of the capital. On the basis of a medical examination the children were divided into two groups—those able to give help on farms to a great extent and those who needed rest and recuperation. The latter, making up 8 out of the 19 colonies, also worked; but it was arranged that they could only help in the household and do "light" field work such as turning hay and digging potatoes; they were not to work more than 7 hours a day.⁵

From the British board of education we learn that while ordinarily in Great Britain some 450,000 children pass out of the elementary schools annually at or about the age of 14 the number was increased

¹ See pp. 29, 30.

² *Soziale Praxis*, Nov. 26, 1914, p. 202.

³ *Il Lavoro* (Milan), July 31, 1915, pp. 203 ff, 221, 222.

⁴ *Russkaiia Mysl*, October, 1914, Pt. II, pp. 92, 93. *Russkiiia Viedomosti*, Oct. 16 (29), 1915; Oct. 17 (30), 1915; Feb. 24 (Mar. 8), 1916; Feb. 26 (Mar. 10), 1916.

⁵ *Russkiiia Viedomosti*, May 14 (28), 1916, and July 30 (Aug. 12), 1916.

by approximately 10 per cent during the year 1915. These additional 45,000 children were practically all legally entitled to leave school. Further, since September, 1914, a very large number of children who were still of compulsory school-attendance ages have been excused by the local education authorities for full-time agricultural employment or (in a few cases) for suitable light employment in cities.¹ "Broadly speaking, it is probable that together these figures do not fully represent the total loss."² On the other hand, Mr. Herbert Fisher, president of the board of education, stated in the House of Commons in April, 1917, that with the greater prosperity of the working classes since the war the enrollment in secondary schools has increased.³

From various British sources come reports of high wages for boys in unskilled occupations and special complaint of the large increase of young boys in street trades. It is stated that the scarcity of boy labor has caused girls to enter occupations in which they have not formerly been employed, but the occupations are not specified. The Board of Trade Labor Gazette⁴ speaks also of the shifting of juvenile labor from one district to another in a way apparently unknown before the war. The number of women gainfully employed in Great Britain had increased by almost one-third between July, 1914, and January, 1917, according to reports from employers. And of the 1,072,000 women who were added to the number of wage earners during that period, all but 1,000 were said to be directly replacing men. About 147,000 of these new wage earners were in Government establishments and 270,000 in privately owned metal works. Just what proportion of these two groups are at work in munition plants is not stated. The clothing trades, which were distinctly women's occupations before the war, and the paper and printing trades report a small decrease in the number of women employed. It should be noted, however, that these figures do not include the displacement of women, estimated at about 300,000, from domestic service or from very small workshops in the dressmaking trade.⁵

Between July, 1914, and October, 1916, women railway employees had increased from 11,000 to 33,000 and women brewery workers from 8,000 to 18,000.⁶

Reports of increased employment of women in Germany are based on the returns of the sickness insurance funds, for in Germany practically all industrially employed women must be insured. On September 1, 1915, the number of women insured against sickness in the

¹ See p. 49.

² Great Britain Board of Education, Annual report for 1915 of the Chief Medical Officer of the Board of Education, p. 104.

³ Great Britain House of Commons Parliamentary Debates, vol. 92, No. 41, column 1887 (April 19, 1917).

⁴ February, 1917, p. 49.

⁵ Great Britain Board of Trade Labor Gazette, April, 1917, pp. 125, 126.

⁶ Ibid., October, 1916, p. 357.

sick insurance funds reporting to the imperial bureau or statistics exceeded by 600,000 the number insured on February 1, 1915. The increase was 120,000 for the city of Greater Berlin alone. In quoting these figures ¹ Ernst Francke refers also to an investigation of the metal industry in the Dusseldorf district before the war which found 913 women employed there; in December, 1914, the number was 6,928. He states further that in the spring of 1915 the mining establishments of Prussia engaged an additional group of 3,000 women and 8,000 children 14 to 16 years old. The women in the Prussian mines were employed in 1915 only above ground, but some of the children "because of the removal of part of the protective restrictions can also be employed underground. It is to be hoped that a growing care for health and safety in industry accompanies the increasing number of women and young persons employed." ² A news item from London ³ states that on July 1, 1916, no fewer than 3,827,640 women were at work in the metal trades in Germany.

That women's work in metal trades in Germany is not confined to the munition factories appears from such a statement as the following: ⁴

In wire factories, women are employed at wire spooling, at the wire-weaving machine, and at wire drawing. In so-called "pottery" foundries women work at the machine mold for cast-iron cooking pots. A smelter in Upper Silesia employs about 50 women in blast furnaces, 25 in coke ovens, and 60 in steel and rolling mills. These women are obliged to do Sunday and overtime work. Another smelter employs about 25 women at blast furnaces and about 20 at Martin furnaces and in the steel works. In still another a particularly strong woman is employed as stoker of a furnace. These are all occupations for which formerly only strong men were used. In other smelters women are employed in lighter work.

Various other references are found to women's employment in Germany in occupations which were formerly men's and for which it is said that new restrictions should be provided in order to protect the health of the women. Unfortunately few German publications have been received since the spring of 1916 and no other figures on the employment of women and children are available.

An exodus of German children from the usual blind-alley occupations is indicated by the difficulty of getting boys for odd jobs, messengers, errands, and other unskilled "nomad" work. "All young boys with any ambition now become apprentices in skilled trades because they are much needed and are paid very differently from peace-time rates; or else they become lathe workers in munition factories, or enter the postal service. Formerly the parents had to make sacrifices and pay for the instruction of the boy, but now he

¹ Preussische Jahrbücher, vol. 162, (1915), p. 388.

² Soziale Praxis, Nov. 4, 1915, p. 118.

³ Washington Post, June 10, 1917, p. 12.

⁴ Soziale Praxis, Aug. 12, 1915, p. 1069.

makes while an apprentice as much as the unskilled youthful worker used to make." ¹

Even more incomplete are the figures available for France, Italy, and Russia.² We learn from the *Bulletin du Ministère du Travail* ³ for example, that in April, nearly 50,000 industrial establishments, not including State-owned munition works or railways, tramways, mines, and quarries, had replaced by other workers more than one-fifth of the wage earners who had been mobilized. These establishments had employed before the war one and three-quarter million workers of both sexes and all ages and of these approximately 420,000 men (24 per cent) had been called to the colors. In April, 1916, the places of some 87,800 had been filled, but how these new workers were distributed among men above military age, and women, boys, and girls does not appear. A marked increase of women workers on French railways is reported. For example, it is stated by the *Journal des Débats* ⁴ that the percentage of women railway employees in France in November, 1916, was growing daily and had already risen to proportions varying from 1 in 10 to 1 in 6 on different lines.

From France come reports also of women's work in furnace industries.⁵ As early as August, 1915, the bulletin of the minister of labor stated that "Certain of the new occupations in which women are employed seem injurious to their health and under normal circumstances the question would arise whether the employment of women in these occupations should not be regulated." ⁶

In July, 1916, the French Government ordered that all soldiers detailed to munition work must so far as possible be replaced by women,⁷ and even earlier it had been ordered that women should be employed instead of men in office work and house service at army headquarters.⁸ In September, 1916, the minister of munitions stated that 300,000 women had gone into the munition works, but he does not say how many of them were under 21 years of age.⁹

Similar orders were issued in Italy in circulars of August 23 and September 28, 1916, which stated that by October 31, 50 per cent of the men of military age in the munition works must be replaced by women and boys and that by December 31 the percentage must be brought up to 80. The second circular states that of the 355,349 wage earners employed at that time in 822 munition works only

¹ *Soziale Praxis*, Oct. 28, 1915, p. 89.

² The Austrian sources have not been reviewed.

³ June, 1916, pp. 188-190.

⁴ Quoted by *Christian Science Monitor*, Boston, Nov. 17, 1916.

⁵ *Réforme Economique*, Dec. 15, 1916.

⁶ *Bulletin du Ministère du Travail et de la Prévoyance Sociale*, Aug. 1915, p. 182.

⁷ *Ibid.*, July-Aug., 1916, p. 132.

⁸ *Ibid.*, June, 1916, p. 103.

⁹ *Le Matin*, Paris, Sept. 24, 1916.

45,628, or 13 per cent, were women. By December 31, 1916, according to the report of the national committee for munitions published early in the current year, the number of women employed in war industries had risen to 90,000, as against 430,000 men, or to 18 per cent of the total number of employees as compared with 4 per cent in November, 1915. In some plants the percentage of women has risen to 90 and even 95. While emphasizing the remarkable rapidity of this increase, the report points out the necessity of a much more general displacement of men by women, discusses the growth of technical training schools for women munition workers, and expresses the expectation of a continually increasing response of Italian women to the needs of the war industries.¹ How far this expectation has been realized, material available in this country does not yet show.

As in France the employment of women in auxiliary army services in Italy has been encouraged. Clerical work, kitchen work, laundry work, general cleaning and other work in military hospitals, and clerical work in territorial offices are especially referred to.²

The only Italian figures received concerning the employment of boys during the war refer to munition works in Lombardy.³ They are based on reports from 660 factories employing about 100,000 workers in June, 1914, and 145,000 workers in June, 1916. The number and percentage of boys employed was small and showed little change; 1,297 boys under 21, or 1.28 per cent, were employed in 1914, and 2,076 boys under 21, or 1.42 per cent, in 1916. On the other hand the number of women and girls in these plants had more than tripled and the percentage of women and girls among all workers had risen from 4.77 per cent in 1914 to 9.97 per cent in June, 1916. This indication of the slight employment of boys in comparison with that of women and girls is borne out by the report of the national committee for munitions.⁴

It may be noted that the number of boys in comparison with women is very small in large and medium sized establishments; and greater on the other hand in unimportant ones.

The reasons for this distribution of juvenile workers in contrast with that of female employees are evidently to be sought in the fact that quantitatively and qualitatively the output of boys is less than that of women, so that while the boys may be usefully employed in establishments which carry on small secondary operations they are on the other hand less adapted to take part in the large, complex, and very fatiguing processes of plants of the first importance.

The economic factor doubtless also helps to determine the distribution; it is quite natural that the factories of limited range and productivity should prefer to utilize

¹ Comitato Nazionale per il Munizionamento, *Il Lavoro Femminile nella Industria di Guerra Italiana*, January, 1917, pp. 20, 21.

² *Corriere della Sera*, Milan, Jan. 15, 1917, and Feb. 17, 1917.

³ *Città di Milano Bollettino Municipale Mensile*, Jan. 31, 1917, pp. 28, 29.

⁴ Comitato Nazionale per il Munizionamento, *Il Lavoro Femminile nella Industria di Guerra Italiana*, January, 1917, p. 23.

boys either on account of the low wages or because their employment exacts fewer hygienic safeguards and precautions.

The *Corriere della Sera* (Milan, Feb. 2, 1917) tells us that for the advantage of pupils working in munitions factories, the committee of Tuscan teachers has submitted various practical proposals to the Minister Ruffini. Among these is one to divide the school year into two periods, one of which should be reserved—from June to October—for those who have given service in the factories.

An article which appeared in the *Moscow Russkiiia Viedomosti* on July 3 (16), 1915, gives a picture of the effect of war upon women's work in Russia.

Since the war the use of women's work in industries has largely increased, particularly the number of women working in metallurgical establishments which before the war did not employ women and even avoided them. At first women were employed only in the most unskilled occupations of a general character. But gradually their labor was tried in more skilled occupations at the bench and machines. The women passed the test. Moreover, the experiment showed that substitution of women for men had some economic advantages for the factories. As a result, women were employed not only from necessity but because of profits.

Women were taken on by various mechanical shops, including blacksmiths'. There were factories where no women were found a year ago and now they constitute 20 to 25 per cent of all the employees; and this percentage is growing rapidly. The more highly paid man's labor is being replaced by the cheaper woman's labor. The changes are striking. The women employing servants began to complain of scarcity of help and of the increased demands made by domestics. In the regions observed by the author the factories until now had been closed to women. The men were working and the wives taking care of the children; many workers' families had their children in high schools. However, there were many manufacturing districts where nearly the whole family would be at work. The same thing happened in villages where the amount of land owned by peasants was insufficient and required outside earnings; men were working the whole year around, women often gave birth to children while at work, and children of tender age were also employed.

At present there is a necessity greater than ever before to use women's work. Their labor is now required by the State. The consequences are complex. If the women at present plow the fields where they never did so before, it does not mean that we have come nearer to the protection of women and motherhood, to the equality of the sexes. If the women at present work in slaughterhouses, blacksmith shops, carpenter shops, and other factories, it does not mean that we have solved the important questions of social legislation. On the contrary, it can be stated that in view of the increased demand for women's work the questions of social legislation become more urgent.

Other occupations in which Russian women have been largely employed during the war include various kinds of railroad work and work in inns and restaurants. The minister of ways of communication, Trepov, early in 1916, issued an order permitting an increase in the number of women employees on railroads for the period of the war up to 25 per cent of all employees. Their employment as conductors is especially referred to, and in the cities of Kiev and Odessa it is reported that classes were opened for training women as conductors.¹

¹ *Russkiiia Viedomosti*, Feb. 28 (Mar. 12) and June 11 (24), 1916.

General references are found in Russian publications to the substitution of children for older workers but no data are available as to the industrial occupations in which they are most largely employed. Street trading by young children has increased and some as young as five years of age are said to be engaged in this work. A member of the city дума of Moscow, appealing to that body to help these children, stated:

The retail sale of newspapers is mostly in the hands of growing children. With the leaving of the adult workers for the front, their places were taken by growing boys and girls working on the streets from early morning till late at night.¹

In spite of her neutrality Netherlands has, of course, been deeply affected by the war. As industrial life has gradually adjusted itself to these war conditions and to the mobilization of the army, there has been on the one hand continued unemployment and on the other a slight increase in child and woman labor. This increase has been especially marked in certain industries. The proportion of women and girls among all wage earners in industrial establishments employing more than 25 persons rose from 20 per cent in May, 1914, to 22 per cent in May, 1916.² The number of young children 12 and 13 years of age who were at work had decreased in 1913 and again in 1914. The number rose again in 1915 but did not reach the total reported for 1912 or 1913.³ A census of all industries shows from 1914 to 1916 an increase of 3 per cent in the employment of boys under 17 years of age, of 16 per cent in the employment of girls under 17, and an increase of 12 per cent in the employment of women 17 years of age and over. The increase in the employment of men 17 years of age and over in the same period was only 2 per cent. In the clothing trades and the metal industry, including shipbuilding, these percentages of increase are much higher.⁴

The following sections give the details of legislation in foreign countries—first, the slight changes in the British dominions where standards have been maintained; second, the new plans for industrial education which will mark a distinct advance in France and Great Britain; and third, a record of the exemptions and the movements for restoring standards in these two countries and others.

MAINTAINING STANDARDS OF SCHOOL-ATTENDANCE AND CHILD-LABOR LAWS.

There has been no weakening of labor laws affecting women and children in New Zealand or in any Canadian Province, and Manitoba has during the war reduced the overtime permitted to women and girls. The only alteration in factory laws for women and children in

¹ Russkila Viedomosti, Nov. 6 (19), 1916.

² Ibid., p. 40.

³ Central Verslag der Arbeidsinspectie, 1915, p. 311.

⁴ Ibid., p. 310.

any Australian State¹ has been an increase in overtime permitted by law in Victoria, but the present limit in Victoria is shorter than that fixed by European laws before the war. The pressure of demand for labor in these British colonies may be guessed from the large numbers of men who have gone to the front. Canada has sent from civil to military life one-nineteenth of her total population, or 440,000 men from among 8,322,000 persons of both sexes and all ages;² in New Zealand, one-fourteenth of the population has enlisted, or 80,593 men from a total population of 1,160,000.³

MANITOBA. *Acts of the Legislature of the Province of Manitoba, 1916, First session, p. 125 (6 Geo. 5, ch. 41, sec. 5), amending Manitoba Revised Statutes, 1913, ch. 70, sec. 15 (b); also secs. 13 and 15 (c) (summarized).*

Overtime allowed in special cases for women and young girls in factories is reduced so that working hours may never exceed 12 hours a day or 60 hours a week, instead of 12½ hours a day and 72½ hours a week, and overtime may now be permitted on only 36 days in the year. The working hours may not ordinarily exceed 9 per day and 54 per week.

VICTORIA. *Public General Statutes of Victoria, 1913 and 1914 (5 Geo. 5, No. 2558, sec. 8), amending Public General Statutes of Victoria, 1911 and 1912, p. 143 (3 Geo. 5, No. 2386, sec. 37) (summarized).*

Overtime allowed in special cases to women and girls and to boys 14 and 15 years of age is increased so that working hours may amount to 57 hours a week during 8 weeks in the year instead of 51 hours a week, including overtime on 10 days in the year. The working hours may not ordinarily exceed 8 per day and 48 per week.

Compulsory school-attendance laws have been maintained during the war without a lowering of the required standards in Canada, Australia, and New Zealand. This is especially significant in New Zealand, Alberta, and the Australian States—South Australia, Western Australia, and Tasmania—where attendance is compulsory under specified ages throughout the entire school term except for children who have completed the elementary school course.

The standard of school-attendance laws has been raised since August 1, 1914, in Nova Scotia, Ontario, Saskatchewan, and South Australia, and Manitoba passed its first compulsory school-attendance law in March, 1916.

NOVA SCOTIA. *Statutes of Nova Scotia, 1915, p. 85 (5 Geo. 5, ch. 4, secs. 7, 11), and Revised Statutes, 1900, Vol. I, p. 409, ch. 55, art. 6 (summarized).*

Attendance is required for the entire term in all cities and towns, instead of only 120 days a year.

¹ The Queensland Statutes since 1914 have not been available.

² The Times, London, May 3, 1917, p. 5.

³ Ibid., Apr. 17, 1917, p. 5.

ONTARIO. *Statutes of 1916*, p. 312 (6 Geo. 5, ch. 62, secs. 3, 4), and *Revised Statutes of Ontario, 1914*, Vol. II, p. 3414 ff (summarized).

The local education authority may require attendance of adolescents under 17 years of age who are exempt from attendance under the truancy act at day classes or night classes. Exceptions may be made if the adolescent has been granted special exemption by the board or committee of the school he would otherwise attend, or if he is sick or has a senior public school diploma.

SASKATCHEWAN. *Statutes of the Province of Saskatchewan, 1917*, p. 23 (7 Geo. 5, ch. 19, sec. 3), and *Statutes of Saskatchewan, 1915*, p. 54 (5 Geo. 5, ch. 25, sec. 191) (summarized).

Every child over 7 and under 14 is required to attend school for the whole time during which the school is open each year. Formerly children in rural districts were required to attend 100 teaching days a year and children in towns 150 days a year.

MANITOBA. *Acts of Legislature of Manitoba, 1916* (first session), p. 329 (6 Geo. 5, ch. 97, sec. 5) (summarized).

School attendance is required for the full term for all children 7 to 14 years of age with exemptions for sickness, or distance from school, or completion of elementary school course. Also, the child may be excused by a justice of the peace or by the principal of the school for not more than 6 weeks a term if he is satisfied that the child is needed for husbandry or work at home because of poverty.

SOUTH AUSTRALIA. *Acts of Parliament of South Australia, 1915* (6 Geo. 5, No. 1223, secs. 41, 42), and *Acts of Parliament of South Australia, 1891* (54 and 55 Victoria, No. 507, sec. 4), as amended by acts of Parliament of South Australia, 1905 (5 Edw. 7, No. 892, sec. 2) (summarized).

The school-attendance law is made to apply to all children from 6 to 14 years of age instead of only to those from 7 to 13 years of age, and attendance is now required for the entire school term.

One of the European belligerents, Hungary, has apparently made no special war exemptions.¹

NEW PLANS FOR INDUSTRIAL EDUCATION.

In England and France proposals have been made not only to establish new systems of continuation schools and additional opportunities for industrial education but also to require part-time school attendance of boys and girls who are now exempt from school-attendance laws. In England it is recommended that the school-leaving age be raised to 14 years without exemptions and that all young people under 18 who are not attending the regular schools should be enrolled in part-time classes. France does not propose to raise the school-leaving age, but a bill is pending which would require part-time attendance of girls under 18 and boys under 20. In presenting this bill M.

¹ Available material on legislation in the following belligerent countries has been reviewed: Austria-Hungary, France, Germany, Great Britain, Italy, Russia.

Viviani referred to the fact that it would not only enforce part-time attendance of adolescents but would incidentally secure better enforcement of elementary school-attendance provisions.

The English plan is based on reports made by a special departmental committee on juvenile education in relation to employment after the war. The reports emphasize the new conception of the child's relation to education and to industry and the importance of real preparation for future work.

GREAT BRITAIN. *Final report of the Departmental Committee on Juvenile Education in Relation to Employment After the War. Vol. 1 (Mar., 1917).*

Page 5. Can the age of adolescence be brought out of the purview of economic exploitation and into that of the social conscience? Can the conception of the juvenile as primarily a little wage earner be replaced by the conception of the juvenile as primarily the workman and the citizen in training? Can it be established that the educational purpose is to be the dominating one, without as within the school doors, during those formative years between 12 and 18?

Page 2. Taken together the three groups [children and young persons who can not immediately find advantageous employment, those who require special training for employment, those who have been abnormally employed during the war] may be expected after the war to constitute a very large section of that great class of employed juveniles between the ages of 12 and 18 to which nearly all members of the community belong in their turn. Our problem, therefore, is the standing problem of the adolescent wage earner, aggravated by the effect of war time conditions upon the serious difficulties which at all times it presents.

Page 12. Even though the educational obligation [of continuation classes] may be a small one, it will still be sufficient to establish the principle that a child is no longer to be regarded as at once attaining, when he enters employment, to the fully independent status of wage-earning manhood. He will still be one under authority and open to the influences of encouragement and reproof, of the corporate life and the offered ideal, which even more than mere instruction are the essence of the educational process.

Over and above the four years' prolongation of formal education which they imply, we believe that compulsory continuation classes will carry on the moral and disciplinary influence of the elementary school, will conduce to a far higher standard of physical well-being, will increase the industrial efficiency of the mass of the population and will give those able to profit by it full opportunity for the beginnings of a valuable technical training.

Page 7. There is no doubt that it will prove easier to raise the standards of education in the towns than in the villages. Nevertheless we consider that it would be a fatal mistake to accept a lower standard as the one proper to be aimed at, and, when practical difficulties permit, attained, in these districts; not only for the large number of children who, although born and educated in villages, will certainly not spend their whole lives in those villages but also for the sake of agriculture and of the agricultural population themselves. After all, agriculture is essentially from top to bottom a skilled indus-

try, and if there is to be an agricultural revival in England, one of the most potent means of bringing it about must be an improved education, resulting both in a higher degree of farming ability and in a higher conception of the possibilities of village life.

Page 37. But a difficulty will undoubtedly arise from the attitude of the farmers, or at any rate of the majority of them. Their real object, sometimes openly avowed, is to get boys on their farms at the earliest possible age. The average farmer does not believe in education, and considers that the longer a boy remains at school, the less inclination he will have for work on the land. In the past the farmer has had some justification for this attitude, for our rural schools have been urban in outlook, and little practical work has been provided in them.

Page 39. Much of the value of the rural continuation school will depend upon the character of the curriculum adopted.

Page 38. From the farmer's point of view there is no doubt that the boy so trained, and taking up farm work at 14 will be far more useful than the boy leaving school at 13 who has received no such training. It is noteworthy that the intelligent opinion of the farming community as unanimously expressed by the central chamber of agriculture is in favor of raising the leaving age to 14 and of establishing day continuation classes for young persons up to 16.

Mr. Herbert Fisher, president of the board of education, has asked the House of Commons to grant for the education budget for the year 1917-18 a sum greater by £3,829,048 than that for the year 1916-17. This would involve the largest increase as compared with the estimates of the preceding year which is known in the history of the board. It is intended that the improvements in the schools for which this increase is requested shall be followed by the organization of continuation schools, the raising of the compulsory attendance age, and a better provision for industrial training. Mr. Fisher's speech in the House of Commons on April 19, 1917, illustrates the new attitude in England toward education.

HOUSE OF COMMONS. *Parliamentary Debates*, vol. 92, No. 41 (April 19, 1917).

Column 1910. Economy is in the air. We are told to economize in our expenditure and foodstuffs. I suggest that we should economize in the human capital of the country, our most precious possession, which we have too long neglected. I should not recommend any measure which would have the effect of disturbing the labor market during the war. But I hope that Parliament may see its way at the early date to assent to a measure which will give effect to the general principles which I have endeavored to describe, so that the foundations may be laid for a fabric of national education worthy of the genius and heroism of our people and a fitting monument to the great impulse which is animating the whole nation during the war.

Column 1884. Another feature of the present situation which can not fail to impress honorable members of this House is the remarkable interest which is now exhibited in education and which is evinced in two quarters from which a clear note has not always hitherto been sounded. Trade-unions are demanding educational reform. Many of the most enlightened employers and manufacturers are actively

promoting it. There is now a prospect new in my experience, and so far as I know new in the experience of the country, of the cooperation of the commercial and industrial interests of this country with the thoughtful energetic portion of the population to secure not only a higher standard of industrial and commercial fitness, but a higher level of general education. Some minds attach importance to education as to the foundation of industrial and military strength. Others are principally affected by the prospect that in the spread of education they may find the resolution of the discords in our industrial life. * * *

* * * A good deal may be done and should be done to diversify and improve the work of the upper standards of our elementary schools and to promote the growth of central schools. It may be assumed that a knowledge of the 3 R's is satisfactorily rooted and established by the twelfth year, and that during the two final years of school life the diet should be richer and more varied. There should be more handwork for the boys, more housecraft for the girls and more literary and inspiring education for both. Such improvements, however, require no legislation and can be effected with a minimum of cost by a better direction of educational effort. It would however be necessary so to amend the law of school attendance as to secure for every boy and girl in the country a full period of school instruction until the fourteenth year. * * *

Column 1899. In the regulations we take powers before paying the grant in any new year to review the provision made for elementary education by the authorities and to consider its adequacy and efficiency in relation not only to the local needs and circumstances but also to the development of a satisfactory system of elementary education, including the establishment of a teaching service on a sounder basis throughout the country. In particular we give notice that we intend to have regard among other things to the provision made in the area as a whole of the following objects: First, for maintaining an adequate and suitable staff of teachers; secondly, for securing the progress of the older scholars by means of special schools or otherwise; thirdly, we shall have regard to the provision made in the area as a whole for the teaching of handicraft, cookery, gardening, and other special subjects; and fourthly, the efficiency with which the law of school attendance is administered. If the board is not satisfied on any of these points, they may, after the first year, withhold or reduce the grant. * * *

The French measure introduced in March, 1917, by the Government in the Chamber of Deputies is designed, according to M. Viviani, the sponsor for the bill, "to coordinate the different proposals concerning education for adolescents."¹ Industrial education and general training for adolescents have been under discussion by parliamentary committees for several years and a bill for the establishment of continuation schools in cities and the development of trade instruction had been favorably reported by the Senate committee before the war, and was passed by the Senate in June, 1915,² but no further action has been taken upon it. Another bill on continuation schools

¹ Le Temps, Paris, Mar. 14, 1917, p. 4.

² Journal Officiel, Sén. Déb. 1916, pp. 606-608, 653-660.

in rural districts and agricultural training had been passed by the Chamber of Deputies and was favorably reported by a Senate committee on January, 1917.¹

The importance of making better provision for adolescent education has been emphasized throughout the war period.

Revue Philanthropique, June, 1916, p. 320.

A statement by the minister of public instruction will serve doubtless as the watchword for all popular educators: "As compulsory primary instruction was born of the war of 1870, there must come from the present conflict obligatory continuation school instruction."

Bulletin du Ministère du Travail et de la Prévoyance Sociale, May-June, 1915, p. 31.

Since the beginning of hostilities, my department has been concerned with the condition of young people from 13 to 18 years of age who because of the closing of stores and workshops are without employment, left to themselves, and deprived of all technical instruction, although at the close of the war the nation's industry will more than ever need skilled workers. To avoid, so far as possible, the serious results which might follow if this condition continued, I have brought the matter before the permanent committee of the superior labor council, so that it may find ways and means to employ these young people for a part of the day at least and to aid them in securing their trade training.

After making inquiry with the Parisian *chambres syndicales* and *comités de patronage d'apprentis*, the permanent committee, at its sessions of September 30 and November 25, 1914, adopted a series of resolutions, from which I quote the following:

"That young people under 18 should continue their school work or be employed in industrial or commercial establishments, or else attend trade courses during the day. Parents should be informed that the additional allowance of 50 centimes a day, provided in the unemployment fund [for each child who is unemployed] can be withdrawn if, through their fault, the unemployed child is attending neither school nor trade course.

"That the investigators of the labor office take steps with the *chambres syndicales* of the various industries in order to secure the organization of trade courses and of work suitable for young people from 13 to 18 years of age."

The permanent committee has also passed resolutions to direct certain Government orders, especially in mechanical occupations, to "*la petite industrie*" so as to support the small and medium-sized workshops and enable them thus to train apprentices; to organize with the assistance of the apprenticeship committees prevocational courses in the available shops, while insisting that manufacturers having any equipment (*outillage*) not in use shall be obliged to employ children several hours a day; to request employers working for the State to employ young people in their shops and factories; to authorize the State-owned factories and shops, which ordinarily do not receive apprentices, to take children from 13 to 18 years of age during the war. * * *

¹ Journal Officiel, Sen. Doc. 1917, No. 7, p. 62.

In the city of Paris satisfactory results have been secured for certain industries and in a certain number of districts. I should especially refer to the happy efforts made by several *chambres syndicales* of employers and workers who have—especially in the building trades, bronze work, jewelry, “*bijouterie-fantaisie*,” furniture, etc.—started practical and theoretical courses.

* * * Certain of the mixed committees, whose organization I requested in my circular of February 5, have concerned themselves with the question. * * * I would call your attention especially to the important rôle which may be played in the instruction and the placing of young people by these mixed committees and by the apprenticeship committees, organized by articles 117, 118, and 119 of Book II of the Labor Code, whose object is the protection of apprentices and children in industry and the development of trade instruction.

The reports of the apprenticeship committees referred to in this circular have not been received. The recommendations of the provincial mixed committees on apprenticeship and trade instruction are summarized in the bulletin of the minister of labor. They vary in detail but they uniformly recognize the importance of the subject even in time of war. Of special interest is the report of the committee of the Seine, which includes the city of Paris.

Bulletin du Ministère du Travail et de la Prévoyance Sociale, July-August, 1916, p. 287.

The commission of the Seine demands the organization of prevocational manual training given, in the elementary school, to children of 12 to 13 years (and if necessary until 14 years, if compulsory school attendance is extended to 14 years); it desires that, beginning with the elementary school, attention be given to vocational guidance of children.

This commission, while recognizing the services rendered by the existing special schools, is of the opinion that trade instruction properly so-called can be given only in the workshop and can be required only in trades where it is necessary; it wishes that, during the period of apprenticeship, the learner may follow the supplementary courses which it will have been possible to organize. * * *

For children engaged only in unskilled work, the attendance at supplementary trade classes should be facilitated so as to enable them to learn a trade in their industry. The time devoted to supplementary trade classes should be included in the length of the working day. * * *

As unemployment gave way to an intense demand for labor, the interest in industrial education continued with new emphasis on the importance to the future of France of developing to the utmost the intelligence and skill of every child. Thus, in the Senate debate on the bill which was passed by the Senate in June, 1916, occur the following statements:

Journal Officiel, Sénat, Débats, 1916, pp. 597, 600, 659 (summarized).

M. Clémentel, minister of commerce, says: “We must begin at once to prepare in these two Chambers the work of to-morrow. We

must forge together the necessary arms for the economic struggle which, let us be quite certain, will be more bitter, more violent than it was in the past. * * * One may say that the supply of our leaders of industry and of our engineers is assured; our great schools provide for that. * * *

"Let us recognize that it is quite otherwise, whatever be the reason, for the rank and file of our industrial army." He deplores the decline of skill and says: "This danger, it seems to me, is an especial menace for the future. * * * I am convinced that it would be the worst improvidence to wait for the end of hostilities to train the young recruits on whom depends the hope of our industrial renaissance."

M. Astier reads from the *Journal des Chambres de Commerce* of May 25, 1916, on the bill under discussion: "Any additional delay in the discussion and adoption of this bill, well-considered and to-day necessary, would be prejudicial to the vital interests of the country."

M. Painlevé, the minister of public instruction, says: "If there is one thing which this war has made plain, it is the immeasurable value of the individual Frenchman, his inexhaustible resources of valor, of tenacity, of invention. A government would be no longer worthy of the name which did not use its every effort to develop fully the mental wealth which is found in the children of France, these future workers of the most generous of civilizations."

WAR EXEMPTIONS.

The power to grant special war-time exemptions to labor laws affecting women and children was secured by legislation or by decree during the first month of the war in Germany and Austria and in the two neutral countries, Italy and Switzerland. In France inspectors were authorized by the minister of labor to grant the exemptions for the national defense which were provided for in the labor code. The Russian exemption measure was not enacted until March, 1915. In England under the factory and workshop act the secretary of state possessed the power to exempt from the factory act establishments owned by the Crown or working for the Crown; in June, 1915, his power was extended to include other establishments.

The nature of the exemptions and the extent to which they were used have varied in the different countries. In practically all, some movement for restoring standards is reported; in England, France, and Italy official action has been taken; in Austria the decree permitting overtime exemptions was canceled for the cotton industry because there was danger of unemployment through scarcity of raw materials. From these countries and others come reports of dissatisfaction of the workers and testimony of physicians concerning the effects of excessive hours. The greater efficiency of a reasonable working day is mentioned frequently.

AUSTRIA-HUNGARY.¹

The Austrian exemptions do not appear to affect the age limits for employment. It should be noted that permits for night work by women and girls may be more freely granted than those for night work by boys 14 to 16, because the welfare of the boys is considered important to the future defense of the State. Protests against excessive hours during the war have been made by a convention of workers. The only official action withdrawing special war exemptions has been concerned with the cotton industry and it is expressly stated that the reason for restricting hours in cotton establishments is the postponement of the unemployment that would result from a scarcity of raw materials. The only change in labor standards reported from Hungary is a new prohibition of night work in bakeries between 6 p. m. and 6 a. m. by a ministerial order of June 24, 1916.²

Bulletin of the International Labor Office, Vol. X.

Page 54, footnote (summarized). Seven of the Austrian provinces on dates from July 26, 1914, to August 5, 1914, annulled their shop-closing orders until further notice.

Pages 55, 56 (summarized). On July 31, 1914, an imperial order (R. G. Bl. No. 183) authorized the minister of commerce in agreement with the minister for the interior and the minister for public worship and education to annul temporarily as a whole or in part the law providing for Sunday and holiday rest in industrial undertakings. A ministerial order was issued on the same day (R. G. Bl. No. 184) annulling the provisions until further orders.

Page 59 (summarized). On August 9, 1914, an imperial order (R. G. Bl. No. 219) authorized the minister for public works to grant exemptions during the war from the regulations in regard to Sunday rest and the payment of wages in mining undertakings.

Page 60 (summarized). On August 31, 1914, the minister of commerce ordered that the granting of permits for overtime work in industrial undertakings should be restricted to the utmost and that, more especially in industries working on military contracts, which were at the time exceptionally busy, an effort should be made—as far as this was possible without adversely affecting the punctual delivery and the quality of the goods—to supply the additional labor required by appointing fresh workers instead of by overtime work.

Bulletin of the International Labor Office, Vol. XI, p. 31 (summarized).

Royal order of October 10, 1914 (R. G. Bl. No. 274) empowered the Government to adopt economic measures which might be necessary on account of the extraordinary circumstances caused by the war.

On September 11, 1915, the minister of commerce issued a decree empowering provincial authorities to grant exemptions to the prohibition of night work for women and girls in the case of indus-

¹ Bulletin of the International Labor Office, 1915, 1916, and January–February, 1917, is the chief source of information for Austria and Hungary.

² Ibid., Vol. XV (German edition), p. 291.

trial undertakings supplying urgent military necessities or important articles of consumption needed for provisioning the people. Each individual application for exemptions must be investigated by the competent industrial inspector and if the inspector and the provincial authorities disagreed as to whether permit should be granted the ministry of commerce would decide.

Petitions to employ boys between 14 and 16 years of age at night, in so far as this night work was not already allowed (act of May 27, 1885, which permitted night work under 16 in the scythe industry, silk-spinning, and in hotels and restaurants) should be subject to an especially rigid inquiry and all such cases were to be referred to the ministry of commerce for decision.

In view of the special necessity for protecting this class of workers (boys under 16 years old) which was so important for the future defense of the State, such requests for exemptions permitting their employment could be considered only in quite exceptional cases, even where the above-mentioned conditions for the employment of women and girls at night were present.

Registers of permits granted were to be sent quarterly to the ministry of commerce.

The decree stated that legal grounds for permitting night work by women and young persons were found in the royal order of October 10, 1914 (see above) but that exemptions had not hitherto been granted because of the special expediency of protecting women and young persons. They would now be considered because of the extension of compulsory military service to higher age groups and the shortage of adult male workers.

Bulletin of the International Labor Office, January-February, 1915, Vol. X, p. 59, and January-February, 1916, Vol. XI, p. 33 (summarized).

The Sunday and holiday rest law was restored in the book-printing trade by ministerial order of August 20, 1914, and in commercial establishments by ministerial order of December 28, 1915.

Bulletin of the International Labor Office, Vol. XI, p. 32 (summarized).

A decree of the minister of commerce, October 21, 1915, instructed the provincial authorities to make no use of the power given by the department's decree of September 11, 1915, to grant exceptional permission to employ women and young persons overtime or at night in establishments where cotton was prepared. In all cases where requests for exceptional overtime or night work were made by such establishments the requests should be submitted to the ministry of commerce which would strictly investigate the case and grant the exemption only when an unavoidably urgent requirement of the army was in question. The reason for this order was the danger of unemployment because of scarcity of raw material.

At the convention of Austrian workers held in Vienna, November 5, 1916, resolutions were passed demanding restoration of industrial standards.

Bulletin of the International Labor Office, Vol. XV (German edition), p. 289 (summarized).

The convention demands for all workers under the war service law:

(1) Government protection of right to wages and of wage agreements and the adjustment of wages to the increased prices. Equal

pay for women for equal work. Payments of maintenance of families of those workers who were called to service away from their regular residence.

(2) Strict inspection of industries for the purpose of protecting the workers' health, complete prohibition of employment of children under 14, an increase in the number of factory inspectors, and the invitation to women with a professional education to become inspectors.

(3) The protection of the workers' right to organize and right of assembly; also their civil rights.

The war has clearly shown the evils connected with the old way of giving out contracts for supplies for clothing. Hitherto the ministries have been concerned only with the price, not with the producers. The feeble efforts lately made in this Province are wholly insufficient. Hence it has come about that the contractors and manufacturers to secure the largest possible profits have lowered wages as far as possible. But in the factories also where working and wage conditions were regulated before the war the employers are now given full freedom by the employment of unskilled men and women and by the suspension of protective labor laws and of the right of organization.

FRANCE.

In France the only apparent lowering of age limits has been the admission in 1915 of children 11 years and 6 months old instead of 12 years old to the examination held annually in July for a primary education certificate which exempts from school attendance. It should be remembered, however, that children holding this certificate are not admitted to factory employment unless they pass the test of physical fitness. The exemptions granted in accordance with the circulars of August, 1914, seem to have been concerned chiefly with night work and overtime.

In June, 1916, the night work prohibition was restored for girls under 18 and in January, 1917, for expectant mothers and for mothers who are nursing young babies. Other night workers are now subject to constant supervision and women who show irregular attendance because of sickness are transferred to the day shift.

The three-shift system in continuous industries is recommended but not required.

Bulletin du Ministère du Travail, 1914, pp. 99, 100*; 1902, p. 340; 1913, Actes et Documents, p. 20* (summarized).*

On the 2d of August, 1914, the minister of labor addressed a circular to the inspectors of labor, authorizing them to grant exemptions from the restrictions of hours provided in the labor law in accordance with permission contained in the decrees of March 28, 1902, and June 30, 1913. The decree of March 28, 1902, is concerned with exemptions to the hours of work for adult males. The decree of June 30, 1913, lists occupations in which exemptions may, under special circumstances, be granted, and the periods over which exemptions may be extended.

The night-work exemptions include metal works, in which women (*femmes majeures*) and boys under 18 may be employed after 9 p. m. and before 5 a. m., the working period not to be more than 10 hours in the 24. Exemptions to the 10-hour working day for women and children under 18 may be temporarily permitted in 58 classes of establishments; among them are "industrial establishments in which work is being done on Government order and in the interest of national safety and defense, after notice from the ministers concerned, stating expressly the necessity for exemption."

On August 5, 1914, the minister of labor issued a circular instructing the labor inspectors to encourage the continuance of production by the employment of adolescents, women, and old men to take the place of men who had been mobilized.

On August 14, 1914, he said: "As supplementary to my circular of August 5 and in reply to divers questions which have been addressed to me, I have the honor to inform you that in the application of laws regulating labor the largest tolerance should everywhere be granted to encourage national production. Official reports [of violations] should be made only after warning and in exceptional cases where the head of the establishment continues, in spite of warning, practices likely to affect the health of the workers."

On August 22, 1914, the minister of labor cautioned the inspectors against permitting overtime in establishments in neighborhoods where there was acute unemployment. "You will require manufacturers to employ additional labor in so far as possible, and, except in work for the national defense, you will indicate that you can not allow exemptions which are so little necessary."

The compulsory school-attendance law permitted before the war exemptions amounting to three months in the year in addition to vacations. No change in these provisions during the war is reported. The age at which a primary certificate might be obtained, permanently exempting the child from school attendance, was reduced from 12 years to 11 years and 6 months for the examinations in July, 1915.¹ Whether a similar reduction was permitted in 1916 does not appear.

Bulletin du Ministère du Travail, 1915, p. 45 (summarized).

In June, 1915, the minister of war, admitting that it is not possible to enforce all the provisions of the decree of August 19, 1899, in regard to conditions of labor on Government contracts, urges administrative bodies to apply them wherever possible, especially to require the insertion of the clause requiring contractors to pay the normal wage current in the district. "The war office states that a clause specifying that a fortnightly day of rest must be allowed should be inserted in all contracts, the manufacturers, in the course of meetings held at the war office, having admitted that this ought to be done."²

Bulletin of the International Labor Office, Vol. X, p. 206 (summarized).

A law providing for the fixing of minimum wages for home workers was passed on July 10, 1915. In summarizing its provisions and

¹ Journal Officiel, Ch. Dép. Déb. 1915, Question No. 901, p. 276; Ministère de l'Instruction Publique, Circular Mar. 4, 1915, Journal Officiel, Mar. 5, 1915.

² Ministère de la Guerre, Circular June 5, 1915.

providing for the details of its administration, the minister of labor in a circular of July 24, 1915, says: "Though the development of home work on army requirements (clothing, bandages, etc.) hastened the passage of the law, the matter of adequate wages for home workers had been discussed for several years, and the law is intended to be permanent, not merely to meet special requirements."

*Bulletin du Ministère du Travail, May-June, 1915, p. 31** (summarized).

The permanent committee of the superior labor council passed resolutions in the autumn of 1914,¹ when many young people under 18 years were unemployed, suggesting that manufacturers working for the State should employ boys in their shops and factories and that the State-owned factories and shops, which ordinarily do not receive apprentices, should be authorized to take children from 13 to 18 years of age during the war.

[No published order to this effect has been received, but it appears from the prohibition of night work by girls under 18 in munition works of June 29, 1916,² that the suggestion of the superior labor council was, in part at least, followed.]

Sous-Secrétariat de l'Artillerie et des Munitions, Bulletin des Usines de Guerre, July 10, 1916, p. 84 (summarized).

The under secretary of state for arms and munitions, after consultation with the advisory labor committee for establishments under the office of arms and munitions, decides that "where women over 18 years of age can not be secured, girls from 16 to 18, after a thorough medical examination, may be employed in Government powder plants in rooms where there are no dangerous gases. They may be employed only for daywork and must receive the same wages as older women. This is an exceptional permission for the war time only. The management must prove that no older women can be secured even through the central employment office. The circular refers also to encouraging older women to enter the works by providing for housing, food, and infant welfare. It specifies that a physician must keep careful supervision of the workrooms in which girls 16 to 18 are employed.

The following suggestion appears to encourage the employment in munition works of young people under 18 years of age.

Sous-Secrétariat de l'Artillerie et des Munitions, Bulletin des Usines de Guerre, July 17, 1916, p. 87.

Among the most interesting innovations in the payment of wages, it seems that the method adopted in a large metal factory in the west deserves an important place. In order to facilitate the employment of women by uniting a whole family in the same shop or the same factory, it was decided to offer a special premium for family labor. When three persons from one family work in the factory the head of the family received a special premium of 75 centimes a day; when the number of members of one family working in the same establishment rises to four persons, the premium will be 1 franc a day. * * * This is a precedent which deserves to be published and followed.

¹ See p. 23.

² See p. 33.

The variety of opinions about these exemptions is reflected in the reports of the provincial mixed commissions for the year 1915, which are summarized in the bulletin of the minister of labor.

Bulletin du Ministère du Travail et de la Prévoyance Sociale, July-August, 1916, p. 288.
(*Travaux des commissions mixtes départementales pour le maintien du travail national.*
Réglementation du travail.)

In the presence of the difficulty of recruiting necessary male labor and in order to facilitate the employment of women and young workers, the commissions have considered the adoption of certain modifications in the application of laws regulating labor.

The Ain demands the continuance of the exemptions of the circular of the minister of labor, August 14, 1914, until the normal resumption of work. Other commissions suggest more extended modifications, authorization for women to work before 5 in the morning and after 9 in the evening, to the extent of 10 hours of work (Charente); temporary abrogation of the restrictions of labor or power given to labor inspectors to suspend their application, especially in that which concerns the employment of women and children (Ariege, Haute-Saone); exemptions in the regulation of labor of women and children, provided that the interests of the workers shall not be affected, especially their wages (Isere); suspension, so far as possible, of the enforcement of restrictions on child labor (Yonne); to facilitate the resumption of maritime fishing, temporary authorization to use boys of less than 13 years (Corsica); modification of labor legislation in accordance with the seasonal character of the fish-canning industry and in order to establish agreements by which conflicts between employers and workers might be restricted (Vendee).

On the contrary, in the Rhone and the Gironde, they wish a complete enforcement of laws regulating labor, the strengthening of inspection, the appointment of inspectors selected by the workers and by class.

In the Seine-Inférieure they wish to see reduced to 10 hours the working period in stores, shops, offices; to prohibit night work and Sunday work; and to limit the exemptions.

The Government emphasized from the beginning of the war the importance of protecting the health of the workers. In February, 1916, the minister of war appointed a committee on women's work and instructed them to study and report on the conditions necessary for the protection of women, especially in munition plants.

Bulletin du Ministère du Travail, January-February, 1916. Sous-Secrétaire d'Etat de l'Artillerie et des Munitions, Circular February 28, 1916.

* * * On hygienic conditions of work, I can only renew my recommendations to give them all necessary attention.

In regard to length of working-day, a weekly rest day, and night work, if it has been necessary to use the exemptions permitted by law, it is important to limit them strictly to that which is indispensable and which does not endanger the efficiency nor the health of the worker. * * * These general directions give no positive answer to individual questions which may arise for managers and manufacturers and which may involve difficulties or hindrances which should be avoided. To study these concrete cases and to sug-

gest solutions unaffected by local considerations and individual interests involved, I have therefore decided to appoint to assist me a committee on women's work (*comité du travail féminin*), before which these cases can be brought by one of the parties or by the controllers of labor supply, and whose opinion will be submitted for my approval before having the force of an order.

The consultations of this committee, which shall be concerned with all kinds of useful information and with both the general welfare and the special cases under discussion, will serve, I doubt not, to provide for women's work in its new adaptations the regulations which it needs and deserves, and which the State, natural protector of the weak, is under obligation to provide.

Sous-Secrétariat de l'Artillerie et des Munitions, Bulletin des Usines de Guerre, May 15, 1916, p. 21 (summarized).

In telling employers of the appointment of the committee on women's work, the under secretary of arms and munitions refers to the difficulties of securing additional women workers and adapting the organization of the factory to their needs. "To these difficulties is added concern for giving to the woman employed in industry the material and moral safeguards for which, as I take pleasure in acknowledging, your industry and that of various private organizations have already led to some provisions."

To the labor unions he writes: "I have taken pains to assure to these women workers the essential safeguards provided for them in our labor laws and the terms of the decrees of August 10, 1899, about wages. * * * The work of this committee should not only permit a rapid accomplishment of indispensable improvements but even more should contribute to regulating the conditions of women's employment in certain industries."

The minister of war emphasized again in March the importance of regulating hours.

Bulletin du Ministère du Travail, June, 1916, p. 94. Ministère de la Guerre, Circular, March 24, 1916.*

Finally, from various sides public opinion expresses some surprise at seeing work interrupted on Sunday and stopping at night in certain establishments. There should be no question of shortening the rest period granted to workers and revoking the measures which experience has led us to prescribe. The labor power must be safeguarded, as much in view of the prolonging of the struggle as of the economic needs of the country after the war. But at the moment when the army is making its most formidable effort, the production of the factories should not be slowed down or stopped for a single instant. It is for you, by a better organization of labor, by a judicious arrangement of shifts, and by the suitable use of auxiliaries, to establish a rotation and alternation which will assure the continuity of work day and night, without interruption on Sunday.

In June, 1916, special schedules of hours were suggested by the office of arms and munitions for the women in munition factories who were engaged on heavy work, in order that even in factories where only two shifts were employed for most of the work these

women might be organized in three shifts, each working only 7 hours, or 7 hours and 30 minutes.¹ Later in the month the under secretary for arms and munitions prohibited the employment of girls under 18 years of age at night in munition works and permitted the employment of those under 21 at night only as an exceptional and temporary measure.

Bulletin du Ministère du Travail, July-August, 1916, p. 131. Sous-Secrétariat de l'Artillerie et des Munitions, circular on night work of women, June 29, 1916.*

The necessity of pushing the production of munitions indispensable to the national defense has demanded that, in a certain number of establishments, women take part in night work, like men. It is important, however, to watch with the greatest care lest this exceptional and temporary measure involve for the health and morals of the working women disadvantages which our labor legislation has been designed to prevent, and to limit to a minimum the exemptions allowed.

I beg you, therefore, to comply with the following instructions which I have decided upon, with the advice of the committee on women's work.

The employment of young girls, less than 18 years of age, in night work shall be forbidden.

You will permit only as an exceptional right and temporarily the employment of working women from 18 to 21 years of age in night work. You will not grant this authorization except after you have ascertained that the scarcity of female labor does not enable the manufacturers to arrange for additional workers enough to replace these women in the night shifts.

I shall ask you to examine the make-up of the night shifts, with the assistance of the manufacturers, in order to avoid the dangers or the serious disadvantages which night work may present for certain women, women whose frequent absences reveal precarious condition of health, women who are pregnant, mothers of families who are obliged to care for young children, etc.

I have decided that the actual period of work for women employed at night shall not be longer than 10 hours, and that it should, if possible, be less. The organization of work by shifts will be, furthermore, the subject of a later circular. You will, in every case, have to be assured that work is broken by the rest periods necessary for good health and arranged so as to further at the same time a reasonable organization of work and the convenience of the working women. It will be for you to control the schedules of hours and to arrange modifications when necessary. If these rest periods have a certain length, you will insist that the manufacturers place at the exclusive disposal of the women a room specially furnished and including sufficient equipment for the heating of food.

You will assure yourselves, finally, that manufacturers have taken all necessary measures to insure at night good order in their workshops.

You will give account of the measures taken in carrying out the present instructions in a special paragraph of your monthly report.

¹ Bulletin des Usines de Guerre, June 5, 1916, p. 45.

In transmitting to the inspectors of labor this circular of the under-secretary of arms and munitions, the minister of labor on July 18, 1916, emphasized the importance of restoring labor standards for the sake both of health and of output.

*Bulletin du Ministère du Travail, July-August, 1916, p. 123** (summarized).

The circulars of August 2, 3, and 14, 1914, have authorized the labor inspectors to grant the greatest indulgence in the application of laws regulating labor, in order to maintain and to increase the output of establishments doing work for the national defense. In carrying out these instructions the labor inspectors, in agreement with my department, have verbally authorized manufacturers to depart from the legal restrictions, especially those which affect the work period for night work for women. * * *

The prolongation of the war has made apparent the serious disadvantages involved in the continued use of certain of these exemptions. As the under secretary of state indicated in the address which he delivered on June 6, 1916, "The experience of war time has only demonstrated the necessity—technical, economic, and even physiological—of the labor laws enacted before the war. It is in our legislation of the time of peace that we shall find the conditions for a better and more intense production during the war. * * * The minister of labor then refers to the circular of June 29, 1916,¹ as sent out by the under secretary of state for arms and munitions upon the advice of the committee on women's work and as indicating the limits which must be observed in granting exemptions relating to night work by women.

"It is of course understood that in cases where it had appeared possible to keep well within these limits, there is no reason to extend the exemptions previously granted. These limits constitute the maximum and not a normal rule substituted merely for the legal restrictions, toward the reestablishment of which one should, on the contrary, tend so far as possible. * * *

Night work by adult women in munition factories is still permitted as a war measure, but on January 4, 1917, upon the recommendation of the committee on women's work certain limitations were added to those set forth in the circular of June 29, 1916. They prohibit night work and overtime by pregnant women and nursing mothers.² In reporting to the committee on conditions desirable for pregnant women in factories, Dr. Bonnaire made a general statement about hours.

Revue Philanthropique, January, 1917, p. 14.

From the viewpoint of resistance to fatigue, the 8-hour shift with 16 hours' rest in 24 is the most favorable. * * * The best arrangement for the pregnant women would certainly be day work on half time, that is to say, a working day of not more than 6 hours.

¹ See p. 33.

² Circular of minister of armaments and war manufactures, Jan. 4, 1917, in *Revue Philanthropique*, January, 1917, p. 36; Resolutions of the committee on women's work, December, 1916, in *Revue Philanthropique*, January, 1917, p. 34.

GERMANY.

The special act of August 4, 1914 (No. 4439), authorizing the imperial chancellor to grant exemptions from the provisions of the labor law, opened the way for an almost complete suspension of the restrictions by which women and children in industry had been protected. Available reports indicate that exemptions were granted very sparingly during the first months of the war and more frequently as the struggle progressed. The possibility of avoiding the need of exemptions by more efficient organization is referred to, but the only definite statements received from Germany about the harmful effects of the exemptions which have been granted come from social workers and workingmen. Very little information has been received since the spring of 1916. Whether the age limit for factory work has been lowered, and just what overtime has been permitted to women and children in industry, the available material does not state.

Bulletin of the International Labor Office, Vol. X.

Page 38 (summarized). On August 4, 1914, a law was passed by the Reichstag authorizing the imperial chancellor to grant exemptions "either generally or for certain districts, or for certain kinds of works, from the restrictions contained in sections 135 to 137a, paragraph 2, and section 154a of the industrial code and from the regulations issued by the federal council in pursuance of sections 120e, 120f and 139a of the industrial code, and failing such exemptions allowed by the imperial chancellor, the higher administrative authorities may upon request grant similar exemptions for individual undertakings."

[These sections of the industrial code are concerned with age limit for children's employment, hours of work for women and young persons under 16 years of age, night work, rest periods, and Sunday work for women and young persons, and the employment of children under 13 underground in mines and salt works. They prohibit the employment of women in coke ovens, in the transportation of materials, for building works, and underground in mines and salt works. They also forbid the employment of women for eight weeks in all, before and after confinement.]

Page 49. The minister for commerce and industry with respect to Sunday work during the war (Aug. 5, 1914). No objections are to be raised to Sunday work undertaken for the purpose of supplying the requirements of the army or of victualling the army and the public. This order applies to Prussia only.

Soziale Praxis, August 13, 1914, p. 1256 (summarized).

The impression that the law of August 4, 1914, has done away with all restrictions is mistaken. * * * That the higher administrative authorities should permit women [to enter] occupations injurious to their health or morals is out of the question. * * * The statement of a paper that in some cases a lack of male workers in our coal mines is met by the employment of women underground is * * * rejected officially as "unfounded rumor" with the following reasons: "The law of August 4 grants exceptions to labor limitations

only in cases of pressing need, when male workers can not be found to take the places of men called to the colors. As long, however, as there is in the Empire a superfluity of unemployed workmen * * * neither the chancellor nor the higher administrative authorities will grant permission for women to work underground."

Various requests for exemptions during the first months of the war were met by similar statements refusing exemptions so long as numbers of men were without work, except in cases of extreme need.¹ The value of efficient organization in making exemptions unnecessary and undesirable is referred to in the following statement:

Bulletin of the International Labor Office, Vol. X, p. 52.

At the request of the German central department for war supplies from tobacco factories, the industrial inspectors are to be instructed to grant immediately any exemptions from the provisions of the industrial code applied for * * *. The minister makes the following statement: "* * * It will, however, in most cases be possible by arranging the work skilfully, so to organize the undertakings that they will attain their maximum output without deviating from the labor laws, and even without causing the adult workmen to work overtime, and, at the same time, be in a position to meet the requirements of the fighting forces, whilst respecting the aims of industrial regulation and the desire for the maximum restriction of overtime, * * *"

On the other hand there are complaints regarding the administration of the law.

Soziale Praxis, Oct. 8, 1914, p. 41.

The employment of young workers in difficult industries on the ground of the emergency law of August 4, 1914, has been criticised frequently in labor papers. As everyone knows, the admission of young people should occur only exceptionally in cases of need on the ground of special authoritative permission. The granting of this permission is sometimes, however, rather arbitrary. The Bergknappe reports from Recklinghausen that the mine managers appointed sittings with the workmen's committee for the discussion of the employment of young persons, at which a member of the Government mining office was always present. If the members of the committee would not give their consent to the underground employment of young persons, the representatives of the mine managers said they would then be obliged to do away with all young workers above ground. The members of the committee then agreed to grant permission for the duration of the war and under the condition that the young persons should be given work in accord with their skill and strength, and that the hour's rest in the day, even if it consisted of several short recesses, should be respected.

Labor inspectors have been of great assistance in reducing the number of necessary exemptions.

¹ *Soziale Praxis, August, 1914, to February, 1915.*

Soziale Praxis, Feb. 18, 1915, p. 490 (summarized).

Labor inspection during the war has had to adapt itself to the changed conditions in many respects. Among other duties has been the inspection of the ways in which exception from labor limitations admissible by the law of August 4, 1914, should be granted in single cases, a matter intrusted to the labor inspectors familiar with local conditions. The latter have made a business of fighting unemployment. They have been able to inform employment bureaus frequently of industries in which there were openings. Also with their help employment bureaus have often been able to offer workers openings suited to their ability, to persuade employers to take men not particularly trained or experienced in their work; and, finally, labor inspectors have in many cases been able to provide, through employment bureaus, so many hands for factories that exceptions to the labor law already granted could be withdrawn. The attempt was made especially to do away with night and shift work for women and young persons.

Soziale Praxis, Apr. 8, 1915, p. 659 (summarized).

An official proclamation of the end of March stated that, in the interest of national defense, everything that could hinder the supplies for army needs, especially munitions, must be avoided. With this in view, it was urged that men working at home would not be behind their brothers in the field in willing sacrifice, but should be ready to labor to supply the pressing army needs during the coming holidays, and in private as well as public factories intrusted with army orders, take off only the first of the Easter holidays. Further, on March 11, the Prussian minister of commerce announced to the Government mining officials and to the mine directors that on account of the present condition of the coal market he was of the opinion, in agreement with the minister of the interior, that until further notice all kinds of work connected with the furnishing of fuel should be included under the decree of August 5.¹

The number of exemptions under the law of August 4, 1914, increased in the second year of the war.

Soziale Praxis, Dec. 16, 1915, pp. 258-259 (summarized).

The memorial of the Bavarian ministers concerning the war activity of the internal government devotes a paragraph to conditions of labor and labor inspection. * * * Through the law of August 4, the chancellor and higher administrative authorities were empowered, where army needs required, to abrogate the restrictions on the labor of women and youthful persons. According to a compilation for Bavaria for the time since the war began, 355 industries which employed 30,637 workers had been granted such exceptions. By the middle of September, 1915, exceptions had been granted to only 149 industries employing 6,497 workers.

The only protests against war exemptions to the labor laws which have been reported come from social workers, working people, and Social Democrats. They include medical testimony to the injurious effects of overtime and night work by women and young persons.

¹ See p. 35.

Zentralblatt für Gewerbehygiene, January, 1915, p. 12.

The Gesellschaft für Soziale Reform and representatives of metal workers addressed a petition ¹ to the Reichstag asking for better protection of metal workers. The petition was referred to the imperial chancellor. On December 17, 1914, a hearing was held in the Federal department of the interior, with workingmen and women testifying, at which speeches were made in favor of a longer minimum rest period, a shorter working time, a revision of the rules allowing the shortening of recess periods, and the introduction of longer rest periods before and after each change of shift.

Bulletin of the International Labor Office, 1916, Vol. XI, p. 239 (summarized).

On March 24, 1916, the social democratic women of Germany addressed a petition to the Reichstag urging (1) the repeal of the emergency law of August 4, 1914, according to which the imperial chancellor can grant exemptions for the duration of the war from the provisions of the industrial code concerning women, young workers, and children; (2) the introduction of an 8-hour day for women, at least in the iron industry, in mining, excavations, the removal of rubbish and other processes. The petition says that many thousands of women and young persons of both sexes are to a very considerable degree engaged in overtime, night, and Sunday work. The petition calls attention to the injurious effect of this work on the workers' health; medical testimony on this point is also appended.

GREAT BRITAIN.

The secretary of state in Great Britain had, without special war legislation, power to exempt from the restrictions of the factory act establishments belonging to the Crown or working for the Crown. By an order in council in June, 1915, this power was extended to include other establishments. Under such exemptions night work, overtime, and Sunday work by women and young persons were permitted in munition works and elsewhere.

In 1915 a committee was appointed to report on the health of the munition workers, and this committee recommended that the standards of the factory act should be restored and that at least night work should not be permitted to boys under 16 or girls under 18 years of age, Sunday work should be abolished, and the three-shift system should be introduced in all plants where operation was continuous. The reports of this committee and the report prepared for the home office by Dr. A. F. Stanley Kent, as the result of scientific experiments with industrial fatigue, emphasized the importance of moderate hours for efficiency of work and intensity of production.

Another committee having administrative powers and representing the home office, the munitions department, and the admiralty has drafted general rulings and studied the applications for special exemptions from the factory act, weighing the demands for produc-

¹ This was either at the end of the year 1914 or in the beginning of 1915. The exact date can not be learned.

tion, the needs of the workers, and the relation of hours to efficiency. As a result, night work and overtime by girls under 16 have been abolished and the one day of rest in seven for women and young persons under 18 has been restored. A general order was also issued by the secretary of state, on September 9, 1916, fixing the limits of hours which would be permitted after the 1st of October without a special exemption and stating that "applications for such special orders will not in future be entertained save in exceptional circumstances and in respect of work of a specially urgent character." This order practically reduced the amount of overtime to that permitted by the factory act before the war for certain exceptional occupations.

The local education authorities in certain districts have excused children from school attendance for agriculture and other work considered suitable to their strength. Many of the local authorities have refused to exempt children, however, and the extra-legal exemptions which have been granted are greatly deplored by the general board of education, although that board sanctioned them.

Bulletin of the International Labor Office, Vol. X, p. 374.

An order in council further amending the defense of the realm (consolidation) regulations, June 10, 1915, Sec. 6A, says: "The power of the secretary of state under section 150 of the factory and workshop act, 1901, by order, to the extent and during the period named by him, to exempt from that act, in case of public emergency, any factory or workshop belonging to the Crown, or any factory or workshop in respect of work which is being done on behalf of the Crown, shall extend to any factory or workshop in which the secretary of state is satisfied that, by reason of the loss of men through enlistment or transference to Government service, or of other circumstances arising out of the present war, exemption is necessary to secure the carrying on of work which is required in the national interest."

These exemptions, although granted in special cases only, have affected the hours of work of women and young persons under 18 years of age.

Great Britain Ministry of Munitions, Health of Munition Workers Committee, Memorandum No. 1, Sunday Labor (November, 1915), p. 4.

The committee understands that, in response to the request of employers, the home secretary has issued orders permitting Sunday labor by "protected persons" (i. e., women and young persons under 18 years of age) in a limited number of cases. At the present moment, for the whole United Kingdom there are about 50 orders covering women, girls, and boys, and also about another 30 for boys only. As a rule, employment on Sundays has only been sanctioned when the hours of work on other days of the week are moderate; and even when Sunday work has been allowed, it has been usual to impose conditions restricting employment as regards individuals, e. g.:

(a) That women and young persons shall not be employed on two consecutive Sundays.

(b) That they shall have time off on Saturday.

(c) That they shall only be employed on Sundays in cases of emergency.

(d) That they shall be employed for a portion of the day only.

Great Britain Ministry of Munitions, Health of Munition Workers Committee, Memorandum No. 13, Juvenile Employment (August, 1916).

Page 5. * * * The home office, as a rule, only authorize Sunday work on condition that each boy or girl employed on Sunday shall be given a holiday on another day in the same week, or as part of a system of 8-hour shifts in which provision is made for weekly or fortnightly periods of rest. Apart from this, permission for boys over 16 to be employed periodically on Sunday was on July 1 last only allowed in seven cases, and in three cases for boys under 16. In only one instance are boys employed every Sunday, but this is limited to boys over 16 and the total weekly hours are only about 56. In only one case are girls employed periodically on Sunday, and there the concession is confined to girls over 16. It is greatly to be hoped that all Sunday work will shortly be completely stopped.

Page 4. Under the factory and workshop act, 1901, boys and girls under 18 years of age who are legally exempt from further attendance at school may be employed for 12 hours (10½ exclusive of meal times) a day during the week and for 8 hours (7½ exclusive of meal times) on Saturdays; that is to say, for a weekly period of 60 hours.¹ Subject to some exceptions in the case of boys, all night work and Sunday work is forbidden, as also is overtime. Under section 150 of the act the secretary of state has power in case of public emergency to relax these restrictions, and since the commencement of the war this power has been widely exercised. The weekly hours have frequently been extended to 67, and in some instances even longer hours have been worked. The daily hours of employment have been extended to 14 and occasionally even to 15 hours; night work has been common; Sunday work has also been allowed, though latterly it has been largely discontinued.

Report to the U. S. Federal Trade Commission, April 17, 1917, by John Bass, special agent on industrial coordination for the Federal Trade Commission.

Toward the end of 1915 it became certain that some action would have to be taken by the ministry to deal with the question of excessive hours, more particularly those worked by women and boys. The department's attention was drawn to the fact that the maximum number of weekly hours allowed under the provisions of the general order made under the factory acts was continually being exceeded and that without the support of the ministry the home office found it increasingly difficult to insure that no persons should work excessive hours.

Exemptions to the school-attendance law have been permitted in certain districts for occupations other than agriculture.

¹ Factory and workshop act, 1901, section 26, fixing these hours, relates to nontextile factories and work shops. Shorter hours are fixed for young persons in textile factories by section 24: Twelve hours a day (10 exclusive of mealtimes) during the week, 6 hours (5 exclusive of mealtimes) in a manufacturing process, or 6½ (5½ exclusive of mealtimes) in any employment on Saturdays.

Great Britain Board of Education, Annual Report for 1915 of the Chief Medical Officer of the Board of Education, p. 106.

In a number of urban areas efforts have been made to secure the exemption of children by employers in various industrial and commercial establishments. Resolutions by trade societies and other bodies have been adopted urging local education authorities to allow children of 12 and 13 to be exempted for employment. Generally authorities have opposed such claims and have maintained that in the interest of the child the school regulations must be followed.

Several local education authorities have approached the board concerning the demand for boy labor which exists in connection with the execution of Government contracts. The board has stated that they have no authority to sanction the release of children from school on conditions other than those mentioned in the by-laws, but they consider that in the areas concerned the authority might, during the period of the war, reasonably excuse boys of the age of 13 years from school attendance, provided that certain prescribed conditions were satisfied. One of the conditions is that the employment shall be of a character suitable to the physical capacity of the boy. This of course is a matter to be dealt with by the certifying surgeon when issuing his certificate of fitness.

Board of Education.—School attendance and employment in agriculture.—Summary of returns supplied by local education authorities for the period September 1, 1914, to January 31, 1915, p. 4.

In the 23 urban areas from which replies to the questions [concerning permissions to leave school granted by local education authorities] have been received it does not appear that the exemptions have in any case been confined to specified industries. * * * In 10 areas it is stated that the children exempted were nearly 14 years of age at the date of exemption and in only 2 cases have the exemptions been confined to cases where the employer has lost workpeople by enlistment. Generally in urban areas the information furnished appears to show that there has been no great variation from the usual practice in the matter. At all times children have been granted exemption in very special circumstances, and the only effect of the war has been that such special circumstances have arisen a little more frequently than they did in normal times.

In September, 1915, the minister of munitions with the concurrence of the home secretary appointed the health of munitions workers committee "To consider and advise on questions of industrial fatigue, hours of labor, and other matters affecting the physical health and physical efficiency of workers in munition factories and workshops." The reports of this committee recommend a return to regular labor standards and emphasize the ill effects of night work and overtime from the viewpoint of both health and efficiency.

Reports on industrial fatigue, based on war conditions, were also prepared for the home office by Dr. A. F. Stanley Kent, of the University of Bristol. These are especially concerned with the relation of fatigue and output and emphasize the importance of a working-day of reasonable length.

Great Britain Ministry of Munitions, Health of Munition Workers Committee, Memorandum No. 7, Industrial Fatigue and its Causes (January, 1916), p. 10.

Taking the country as a whole the committee are bound to record their impression that the munition workers in general have been allowed to reach a state of reduced efficiency and lowered health which might have been avoided without reduction of output by attention to the details of daily and weekly rests.

Ministry of Munitions, Health of Munition Workers Committee, Memorandum No. 13, Juvenile Employment (August, 1916).

Page 3. It is necessary to guard not only against immediate breakdown but also against the imposition of strains which may stunt future growth and development. Long hours of work by day or by night, often coupled with unsatisfactory conditions of housing and transit, late hours and lack of parental care, make the dangers great and immediate. * * *

Very young girls show almost immediately * * * symptoms of lassitude, exhaustion, and impaired vitality under the influence of employment at night. A very strong similar impression was made * * * by the appearance of large numbers of young boys who had been working at munitions for a long time on alternate night and day shifts.

Page 4. A recent witness before this committee has expressed the view that boys between 16 and 18 were quite different from boys under 16; they were much stronger. Boys under 16, on the other hand, were probably more delicate than girls of the same age, and more likely to break themselves up. The essential safeguards were the reduction of hours and welfare work. Apart from the strain on the health involved, long hours had disastrous effects upon the characters of boys. They also might make an adequate amount of sleep difficult, and, perhaps most important, they prevented adequate facilities for recreation. * * * Eight hours of sleep at least were essential, nine hours would be better. Unfortunately, many boys got only six or seven hours.

Ministry of Munitions, Health of Munition Workers Committee, Memorandum No. 5, Hours of Work (January, 1916), p. 8.

Boys like men are generally employed on 12-hour shifts. It does not seem practical to suggest any change of system, but the committee hope that care will be taken to watch the effect of night work on individual boys and to limit it as far as possible to those over 16.

Ministry of Munitions, Health of Munition Workers Committee, Memorandum No. 13, Juvenile Employment (August, 1916), p. 5.

Similar difficulties [in limiting the working hours of boys, because they are frequently used to assist men working in long shifts] do not often arise in regard to the employment of girls, and as employment has become more organized a noticeable reduction has taken place in the hours of work. Employers have increasingly recognized that there are definite limits beyond which women and girls can not usefully be employed. At a number of factories the three-shift system has been introduced.

Ministry of Munitions, Health of Munition Workers Committee, Memorandum No. 5, Hours of Work (January, 1916), p. 7.

They [eight-hour shifts] involve little or no strain on the workers; the periods during which machinery must stand idle for meals are very much reduced, while significant statements have been put before the committee claiming beneficial effects upon output.

Ministry of Munitions, Health of Munition Workers Committee, Memorandum No. 4, Employment of Women (January, 1916), p. 6.

The disadvantages of an overtime system are being increasingly recognized by employers. The recognition has been forced upon some by the resultant fatigue, illness, and bad timekeeping of the workers; to others it has come by some accidental shortening of the day, which has shown that the loss of hours has carried with it no diminution in output. * * * Again, several employers of different kinds who, accustomed to work their women from 8 to 8 were forced by lighting regulations and other causes to stop at 6, found the output undiminished.

Home Office, Second Interim Report on an Investigation of Industrial Fatigue by Physiological Methods (August, 1916).

Page 44. A worker employed for 10 hours per day may produce a greater output than when employed for 12 hours, the extra rest being more than sufficient to compensate for the loss of time.

A worker employed for 8 hours per day may produce a greater output than another of equal capacity working 12 hours per day.

A group of workers showed an absolute increase of over 5 per cent of output as a result of diminution of $16\frac{1}{2}$ per cent in the length of the working-day.

Another group increased their average rate of output from 262 to 276 as a result of shortening the day from 12 hours to 10 and to 316 on a further shortening of 2 hours.

The time "lost" by factory workers may approach an average of 10 per cent of the working-day. The amount lost varies with the length of the working-day and appears to depend upon fatigue.

Total daily output may be diminished by the introduction of overtime.

Under the conditions studied neither rate of working nor total output attains a maximum when a 12-hour day is adopted.

Page 43. During the middle periods of the day output is normally high, but is lowered by the working of overtime. This diminution is often so great that the total daily output is less when overtime is worked than when it is suspended. Thus overtime defeats its own object.

The unsatisfactory output of the overtime period is due to fatigue.

Page 4. It has nevertheless been proved that the output of workers during the overtime period is far less than the output during the hours of normal labor. And in my opinion the results of experiments indicate that this lessening of output in the period of overtime is due to fatigue.

Annual Report of the Chief Inspector of Factories and Workshops for the Year 1915, p. 13.

The tendency grew as the year passed to substitute a system of shifts for the long day followed by overtime, and this is particularly

reported of munition factories in the Midlands and in Sheffield. * * * The number of days on which overtime was actually worked tended in many factories to decrease as experience grew of accumulating fatigue and lessened output. Probably for similar reasons Sunday labor also has tended latterly to decrease.

Ministry of Munitions, Health of Munition Workers Committee, Memorandum No. 4, Employment of Women (January, 1916), p. 6.

The committee recommend the adoption of the three-shifts system without overtime, wherever a sufficient supply of labor is available. Where the supply is governed by difficulties of housing and transit, the committee are of opinion that every effort should be made to overcome these difficulties before a less serviceable system be continued or adopted.

Ministry of Munitions, Health of Munition Workers Committee, Memorandum No. 1, Sunday Labor (November, 1915), p. 5.

Should the early stoppage of all Sunday work be considered for any reason difficult, if not impossible to bring about, the committee trust that it will at least be practicable to lay down the principle that Sunday labor is a serious evil which should be steadily and systematically discouraged and restricted.

Annual Report of the Chief Inspector of Factories and Workshops for the year 1915, p. 6.

Sunday labor has been found to be more and more unsatisfactory; apart from the ill effects which must follow from a long-continued spell of working seven days a week, it too often results in loss of time on other days of the week and in consequent disorganization, and employers were perhaps the more ready therefore to accept the recommendations of the health of munition workers committee that it should be abandoned. They have been encouraged, too, in this direction by the action of the ministry, who issued a circular to all controlled factories, urging the importance in the interests both of the workers and production that a weekly rest period—preferably Sunday—should be secured to all workers. The following is an extract:

“The aim should be to work not more than 12 shifts per fortnight or 24 where double shifts are worked. Where three 8-hour shifts are worked, not less than two should be omitted on Sunday. It is, in the opinion of the minister, preferable to work a moderate amount of overtime during the week, allowing a break on Sunday, rather than work continuously from day to day. It is still more strongly his view that where overtime is worked in the week, Sunday labor is not desirable.”

Ministry of Munitions, Health of Munition Workers Committee, Memorandum No. 13, Juvenile Employment (August, 1916), p. 5.

The committee remain of the opinion that girls under 18 and boys under 16 should only be employed at night if other labor can not be obtained. Wherever possible it should be stopped. In March last in reply to an inquiry as to the employment of girls of 15 at night, the parliamentary secretary to the ministry stated that, “The general practice of the home office, in consultation with the ministry of munitions, has been and is, to refuse all proposals for the employment of such young girls on night shifts. In one or two cases, however,

through exceptional circumstances a departure has been made from this practice. These cases are now under review with the object of arranging for the discontinuance of such employment at the earliest possible moment."

As an administrative measure, toward the end of 1915 an inter-departmental committee on hours of labor was set up to insure that the ministry was fully informed as to the points at issue, and also to focus the attention of its officials on the importance of regulating the number of hours which could be worked to maintain adequate efficiency. The memoranda of the health of munition workers committee served as a basis for the committee's work. The committee includes a representative of the home office, who is responsible for the conditions of employment of women, girls, and boys in munition factories, and officers representing the admiralty and the various supply departments and welfare section of the ministry.¹ As a result of the committee's work certain definite orders have been issued for controlled factories, eliminating night work by girls under 16 years of age, providing one day of rest in seven for all females, and practically eliminating Sunday production in certain kinds of plants.

Bass, John, Report to U. S. Federal Trade Commission, Apr. 17, 1917.

At a meeting of the committee held on the 4th of July [1916] an arrangement was finally agreed upon whereby the employment of boys was subject to the approval of the home office factory inspector and the ministry's superintending engineer. Any difficulties which might arise between these two officers were to be referred to the home office and the ministry for decision. In admiralty cases the same procedure was to be followed, but the ministry's engineer, before expressing an opinion, would consult the admiralty representative for the area in question.

The question of the employment of girls under 16 years of age at night occupied the attention of the committee for several months. The employment of these girls is chiefly in the small arms factories. * * * The employment of girls of this age at night has been forbidden.

After the committee had met a considerable number of times it became clear that there was a certain body of opinion amongst employers in favor of the discontinuance of Sunday labor altogether. The question, however, proved very difficult and complicated owing to the continual variation in the needs of output and to the variety of the work. * * * It was found possible on the 8th of October [1916] to notify all the firms in this district [northeast coast area] that on that date Sunday labor must be discontinued except on urgent work and necessary repairs to plant. * * * A report was received as to the effect which the action of the committee had had in the Tyne and Tees area which tended to show that beneficial effects both on output no less than on the welfare of the workers had resulted from the committee's action. * * * The question of Sunday labor

¹ Bass, John, Report to U. S. Federal Trade Commission, Apr. 17, 1917.

in national projectile and shell factories came before the committee * * * [and] it was agreed that Sunday labor for protected persons should be discontinued altogether with the exception in the case of the national projectile factories that a short shift on Sundays might be worked for the purpose of rectification of shells and the straightening up of shops. * * * Sunday labor in explosives factories where work has necessarily to be continued over the week-end was considered by the committee early in January with the result that the department of explosives supply agreed to provide for every female worker a satisfactory rest period, by arranging as far as possible that eight women should be employed to undertake the work of seven thus providing that no individual woman should work more than six days a week.

On the 9th of September, 1916, the home office issued a general order applicable to "all munition factories and workshops or parts thereof belonging to or controlled by the Crown—including all controlled establishments under the munitions of war acts 1915 and 1916 (not being textile factories) which are not specifically regulated by any other order * * * and such other classes of factories and workshops engaged on munitions work as the secretary of state may from time to time direct * * *. Hours not allowed by the factory act or the order in question are not to be worked after the 1st of October, 1916, unless expressly sanctioned by special order from the home office. Applications for such special orders will not in future be entertained save in exceptional circumstances and in respect of work of a specially urgent character."¹

Four schemes of employment are outlined, and employers may adopt any one or any combination. No boys under 14 or girls under 16 are to be employed overtime. If females are employed on night shifts, they must be supervised by a welfare worker or responsible forewoman.

Home Office General Order, Sept. 9, 1916, p. 1.

SCHEME A. (THREE SHIFTS.)

This scheme applies to women and female young persons of 16 years of age and over, and male young persons of 14 years of age and over. Three shifts, none of which may be longer than 10 hours, may be worked in each period of 24 hours, subject to the following conditions:

(1) Each worker shall have one break of 24 hours or more in every week, or of 32 hours or more in every alternate week, or of 40 hours or more in every third week.

(2) Each worker shall have an interval of two unemployed shifts between each two shifts of employment.

(3) An interval of not less than half an hour shall be allowed if the shift is 8 hours or less, and an interval of not less than one hour if the shift is more than 8 hours.

¹ Home office general order, Sept. 9, 1916, p. 1.

Provided that the superintending inspector of factories may authorize, subject to compliance with condition (1) and to such other conditions as he may impose, different arrangements as regards hours of work and breaks at the week end for the purpose of changing over the shifts.

SCHEME B. (TWO SHIFTS.)

This scheme applies to women and female young persons of 16 years of age and over and male young persons of 14 years of age and over, provided that the employment in the night shift of girls under 18 or boys under 16 years of age shall be subject in each case to the approval of the superintending inspector of factories. Two shifts of 12 hours each may be worked, subject to the following conditions:

(1) No person shall be employed more than 6 turns by day or more than 6 turns by night in any week.

(2) Unless otherwise sanctioned by the superintending inspector no person shall be employed on Sunday except in a night shift commencing on Sunday evening or ending on Sunday morning.

(3) The total hours worked per week (exclusive of mealtimes) shall not exceed 60, provided that in the case of male young persons 16 years of age and over the total hours worked per week (exclusive of mealtimes) may be 63.

(4) Intervals for meals amounting to not less than $1\frac{1}{2}$ hours shall be allowed in the course of each shift, of which in the case of the night shift one-fourth of an hour or more shall be allowed as a break within 4 hours of the end of the shift.

(5) Each worker shall have an interval of one unemployed shift between each two shifts of employment.

Providing that the superintending inspector may authorize, subject to such conditions as he may impose, a system of one long shift, not exceeding 13 hours with a corresponding reduction in the other shift, so that the *average* weekly total of hours shall not exceed the limits specified above in paragraph (3).

Circular letter 198802 to accompany Home Office Order of Sept. 9, 1916.

No requirement is laid down in the order that workers on the night shift shall change periodically to the day shift. The matter is left to the individual employers to determine in consultation with their work people. Care should be taken in selecting women and young persons for night work. They should not be put on night work indiscriminately * * *.

Home Office Order, Sept. 9, 1916, pp. 2, 3.

SCHEME C. (REARRANGEMENT OF STATUTORY HOURS.)

This scheme applies to women and female young persons of 16 years of age and over, and male young persons of 14 years of age and over.

In the case of such women and young persons, the hours of work and intervals for meals allowed by the [factory and workshop] act may be rearranged subject to the following conditions:

(a) The total hours worked per week (exclusive of intervals for meals) shall not exceed 60.

(b) The daily period of employment (including overtime and intervals for meals)—

(1) Shall not commence earlier than 6 a. m. or end later than 10 p. m.

(2) Shall not exceed 14 hours.

(c) Intervals for meals amounting to not less than $1\frac{1}{2}$ hours shall be allowed during the period of employment, with an additional half an hour if the period of employment is more than $13\frac{1}{2}$ hours.

(d) No overtime shall be worked on Saturday.

SCHEME D. (OVERTIME FOR BOYS.)

This scheme applies to male young persons of 16 years of age and over provided that the superintending inspector of factories shall have power in cases where the work is of a specially urgent character to extend the application of the scheme to male young persons between 14 and 16 years of age.

Such young persons may be employed overtime on *week days other than Saturday* subject to the following conditions:

(1) The total hours worked per week (exclusive of intervals for meals) shall not exceed 65.

(2) The daily period of employment (including overtime and intervals for meals)—

(a) Shall not commence earlier than 6 a. m. or end later than 10 p. m.

(b) Shall not exceed 14 hours.

Provided that where overtime is worked on not more than 3 days in the week the period of employment may in the case of boys of 16 years of age and over be 15 hours.

(3) Intervals for meals amounting to not less than $1\frac{1}{2}$ hours shall be allowed during the period of employment with an additional half hour if the period of employment is more than $13\frac{1}{2}$ hours, or an additional three-fourths of an hour if the period of employment is 15 hours.

(4) On Saturday the period of employment shall end not later than 2 p. m.

NAVAL SHIP REPAIRING WORK.

In cases of special emergency women, female young persons of 16 years of age and over, and male young persons of 14 years of age and over, employed on repair work for His Majesty's ships may be employed for special hours on any day of the week on the express instructions of the senior naval officer in charge and subject to such conditions as he may lay down as regards intervals for meals and rest; provided that in any case—

(1) No male young person over 16 years of age shall be employed for more than $67\frac{1}{2}$ hours in the week (exclusive of intervals for meals and rest).

(2) No other young person or woman shall be employed for more than 65 hours in the week (exclusive of intervals for meals and rest).

MISCELLANEOUS PROVISIONS.

No woman or young person shall be employed continuously at any time for more than five hours without an interval of at least half an hour, except that where not less than one hour is allowed

for dinner, an afternoon spell of six hours may be worked, with an interval of quarter of an hour only for tea, if the factory inspector is satisfied that adequate provision is made for the worker to obtain tea in the works and for tea to be actually ready for them as soon as they stop work.

If work commences before 8 a. m. and no interval is allowed for breakfast, an opportunity shall be given to take refreshment during the morning.

A woman or young person shall not be allowed to lift, carry, or move anything so heavy as to be likely to cause injury to the woman or young person.

Different schemes of employment may be adopted and different intervals for meals fixed for different sets of workers.

Employment on night shifts shall be subject to the provision, to the satisfaction of the factory inspector, of proper facilities for taking and cooking meals, and in the case of female workers, for their supervision by a welfare worker or a responsible forewoman.

Annual Report of Chief Inspector of Factories and Workshops for the Year 1916, April, 1917.

Page 7. Much that was abnormal and bound to be injurious to health if long continued has been brought within manageable limits. Excessive overtime and Sunday labor have been checked and as nearly as possible abolished, and night employment of girls under 18 has greatly decreased. As the inspection of controlled and other munition factories has progressed we find fewer factories working irregularly overtime or at night without sanction or regulation by an order. * * * The idea, once prevalent, that the factory act was in abeyance until the end of the war has gradually disappeared and very general compliance with the orders as regards hours of employment is found. While the latitude permitted by the orders has in some cases been exceeded, in other cases employers have voluntarily increased the length of the legal intervals.

Page 4. It is fairly well recognized now that continuous and excessive overtime very soon produces lassitude and slackness among the workers and injuriously affects efficiency and both the quality and quantity of work. In one weaving factory special records were kept when the normal hours of $55\frac{1}{2}$ a week were increased for 16 weeks to 58 and for 4 weeks to $65\frac{1}{2}$. The output did not increase in proportion and the difference was more marked when working the $65\frac{1}{2}$ hour weeks.

The exemptions from school-attendance by-laws for agricultural work have offered a distinct problem. They have been granted by certain of the local education authorities without sanction in the provisions of the education laws. The Board of Education during the first year of the war approved the granting of such extralegal exemptions by the local authorities under specified conditions and in exceptional circumstances. The board stated in the spring of 1916 that exemptions had been granted too freely and emphasized the danger to the children involved in the situation. The board has, however, no direct control over the action of the local authorities,

except that in all cases where exemptions are granted, whether under the law or without the law, the money grant from the Board of Education to the local authorities is proportionately decreased. It is noteworthy that the practice of local authorities has not been uniform, and in some districts the pressure for the employment of children has been successfully resisted and extralegal exemptions have not been granted.

Board of Education. Correspondence relating to school attendance between the Board of Education and certain local education authorities since the outbreak of war, pp. 6, 7. (Letter of Aug. 21, 1914.)

The board think that, in the general interest of the nation, it is of the greatest importance that the public education of the country should be continued without interruption and with undiminished efficiency.

— *Annual Report for 1915 of the Chief Medical Officer of the Board of Education, p. 103.*

To withdraw the child from school at an earlier age than that contemplated by the attendance by-laws is to arrest his education on the threshold of the years when he is probably just commencing to assimilate and consolidate the instruction he has received and is receiving at school. His introduction to labor at this time renders him liable to conditions of strain detrimental to his physical well-being.

— *Annual Report for 1914 of the Chief Medical Officer of the Board of Education, pp. 224, 225.*

* * * The conditions which, in view of the Government, should be satisfied before a local education authority excused children from attendance at school for the purposes of agricultural employment (Circular 898 sent out in March, 1915):

(1) The employment of children of school age should be regarded as an exceptional measure permitted to meet a special emergency, and should only be allowed when the authority are satisfied that no other labor is available; and in no case should children be excused attendance at school if older children who are under no legal obligation to attend school are available.

(2) In considering the available supply of labor, the authority should satisfy themselves that all reasonable efforts have been made to secure adult labor, e. g., by application at the labor exchanges and especially by the offer of adequate remuneration.

(3) Every case should be considered on its merits, and there should be no general relaxation of by-laws.

(4) The employment should be of a light character and suitable to the capacity of the child.

(5) Permission, if given at all, should be given for a definitely limited period only.

— *Circular 943, Feb. 29, 1916.*

(a) Children under 12 years of age should never be excused unless the circumstances are entirely exceptional, and then only for very short periods.

(b) Persons desiring to employ in agriculture children liable to attend school should be asked to furnish particulars of the character

for which the labor is required. They should also be required to satisfy the authority that they have made adequate efforts, supported by the offer of reasonable wages, to secure the labor required in other directions, and more particularly by employing women.

(c) It is suggested that the urgency of the need for the labor of school children may to a certain extent be tested by the amount of the wages offered, and as a general rule it may be taken that if the labor of a boy of school age is not worth at least 6 shillings¹ a week to the farmer the benefit derived from the boy's employment is not sufficient to compensate for the loss involved by the interruption of the boy's education.

(d) A register should be kept of children exempted, and all exemptions should be reviewed at intervals not exceeding three months in order to ascertain that the conditions on which the exemption was granted still exist.

(e) It is important that the education committee should exercise direct control over the matter, that no general resolutions on the subject should be adopted by the county council until the views of the education committee have been carefully considered, as required by statute, and that the work of excusing individual children should be closely supervised by the education committee; it has been found that a policy of giving district committees an unfettered control in the matter, or of giving school-attendance officers or other persons a discretion to excuse children when they think fit, involves great divergency in practice and gives rise to considerable laxity of administration.

Although some local authorities resisted successfully the attempt to obtain general or wide exemptions from school-attendance laws, the result of allowing discretionary exemptions to these laws was an extensive exodus of children from schools into farm work.

Board of Education. Annual Report for 1915 of the Chief Medical Officer of the Board of Education, p. 103.

The board have already expressed their concern to local education authorities at the large number of exemptions which have been granted for agricultural employment, and have stated that in their view in some areas they have been granted too freely and without sufficiently careful ascertainment that the conditions of exemption prescribed by the Government, as indicated by the board's circular letter of 12th March, 1915, to local education authorities, were fulfilled.

— *School Attendance and Employment in Agriculture. Returns September, 1914, to January, 1915, p. 3.*

In 18 counties the exemptions have been confined to agricultural employment and in 12 the exemptions have covered other industries. The figures themselves show that 89 per cent of the exemptions have been for agricultural employment. The exemptions do not in most cases appear to have been granted for any definite period, but the replies indicate that the counties contemplate that the exemptions may be withdrawn should the conditions subject to which they were granted cease to exist. * * * In 19 counties it is stated that the exemptions have only been given where the employer has lost work-

¹ Six shillings equal \$1.46.

people by enlistment, and in other counties the exemptions have been confined to cases where the father or brother of the employed child has enlisted.

Board of Education. Annual Report for 1915 of the Chief Medical Officer of the Board of Education, p. 106.

Several authorities have during the past months passed resolutions in favor of exempting children under 12 years of age. On the other hand, a number of authorities have successfully resisted proposals for the release of such children.

Morning Post (London), Feb. 23, 1917.

In the annual report of the committee on wage-earning children alarm is expressed at the increasing demand for child labor, particularly in the agricultural districts; and the opinion is given out that the relaxation of the by-laws under the employment of children (1903) act is unjustifiable.

Board of Education. Annual Report for 1915 of the Chief Medical Officer of the Board of Education, p. 105.

Exemptions of school children from school attendance for agricultural employment. Returns furnished by local education authorities.

Number of children normally liable to attend school but excused from attendance for the purpose of agricultural employment:

Sept. 1, 1914 to Jan. 31, 1915.....	1, 413
Feb. 1, 1915 to Apr. 30, 1915.....	3, 811
On Jan. 31, 1916.....	8, 026
On May 31, 1916.....	15, 753
On Oct. 16, 1916 ¹	14, 915

These are the numbers of exemptions granted. It does not represent the number of children permitted exemption at any one time since many children excused during the earlier period have since attained the age of 14 or are on other grounds legally exempt from liability to attend school; many children, excused for short periods only have since returned to school.

The number of children legally exempted from school for employment in agriculture under "Robson's Act" from September 1, 1913, to January 31, 1914, was 90. For the same period the next year the number was 96. These were the only children legally entitled to leave school.²

A number of children who would normally have remained in school have left school for employment. Besides those specially exempted for agricultural purposes these include children under 14 years of age legally exempted because they have fulfilled all educational requirements, and also children over 14.

— *Annual Report for 1914 of the Chief Medical Officer of the Board of Education, p. 227.*

In normal times many children who might obtain exemption from school under the by-laws so far as age, previous attendance, or quali-

¹ Board of Education, Summary of returns supplied by county local education authorities of children excused from school for employment in agriculture on Oct. 16, 1916.

² Board of Education, School Attendance and Employment in Agriculture, Summary of returns supplied by local education authorities for the period Sept. 1, 1914, to Jan. 31, 1915, p. 10.

fications are concerned do not in fact avail themselves of their opportunities [to go to work] and remain at school longer than they really need. I have no actual figures on the subject, but there is reason to suppose that at the present time, in view of the largely increased demand for juvenile labor, children are taking fuller advantage of the possibilities of exemption offered by the by-laws.

The children exempted from school for agricultural employment are not receiving high wages.

Board of Education. School Attendance and Employment in Agriculture. Returns 1st September, 1914 to 31st January, 1915, p. 3.

The wages vary considerably below a maximum of 7s.¹ a week, and it is difficult to ascertain the value of the remuneration given, owing to the fact that in many cases board and lodging are supplied. The following reply given in one county may be regarded as fairly typical:

2 at 6s., 1 at 5s. 6d., 9 at 5s., 5 at 4s. 6d., 6 at 4s., 1 at 3s. and meals, 1 at 2s. and meals, 1 lodged and boarded (no pay), 3 at nil (working for parents).

The employments entered have little value as preparation for future working life of children.

Leeson, Cecil, The Child and the War, p. 36.

If the lads were learning anything useful the situation, though still undesirable, would be not quite so bad; but they are not learning anything useful. Most of the factory work they do is "blind-alley" work, fitting them for nothing afterwards; and, to do it, lads are sacrificing physique, efficiency, and in many cases character.

Efforts have been made to find substitutes for the labor of children of school age in the labor of women and of young people and children legally exempt from school attendance.

Board of Education. Report for 1915 of the Chief Medical Officer of the Board of Education, p. 106.

The board of agriculture have expressed the opinion that if the women of the country districts and of England generally took the part they might take in agriculture, it would be quite unnecessary to sacrifice the children under 12.

Board of Trade Labor Gazette, Vol. 24, No. 2 (Feb. 1916), p. 43.

The board of trade in consultation with the board of agriculture are taking active steps to mobilize a sufficient supply of women for work on the land in order to meet the shortage of agricultural labor due to the enlistment of men in His Majesty's forces. The reserves of women's labor available for agriculture are to be found chiefly among the local unoccupied women in country villages, who have some experience of, or familiarity with, agricultural work, and also among the better educated women who are willing to be trained for the purpose.

¹ The shilling equals approximately 24 cents.

GREECE.

In October, 1915, a law was passed authorizing a suspension of the labor laws under definitely specified conditions in case of mobilization. What action has been taken under this act does not appear from the Bulletin of the International Labor Office.

Bulletin of the International Labor Office, Vol. XI, p. 52 (summarized in part).

The act of October 18/31, 1915 (No. 677), provided that in case of mobilization the laws "coming within the purview of the minister of national economy" and all decrees issued in pursuance of the same might be suspended by a royal decree, upon the proposal of the minister of national economy in accordance with a resolution of the ministerial council. Suspension of an act relating to the benefit associations and trade unions was also permitted. Before such decrees are published, however, an opinion on the suspension was to be obtained from the permanent committee to be elected by the members of the superior labor council. This committee was to be elected from among the members of the superior labor council and must contain at least one representative of the employers and one of the workers. If these elections had not taken place, the members of this committee might be appointed by the minister of national economy, provided that two members were chosen from among the employers' representatives on the labor council, and two from among the workers' representatives.

Any such suspension by royal decree should not apply for more than three months after demobilization, and might be revoked at any time by royal decree.

Several months earlier (Dec. 24, 1914/Jan. 6, 1915) the provisions concerning night work in bakeries had been suspended for fancy bakeries under specified conditions and for zwieback bakeries by special permission. This does not appear, however, to have been a war measure.¹

ITALY.

On August 30, 1914, a royal decree allowed suspensions of the night work prohibition for women and children under specified conditions, and in June, 1915, after Italy had entered the war, a decree of the lieutenant general suspended for the duration of the war educational requirements for sons of soldiers who were 12 years old and wished to go to work. The weekly rest law, without any war time amendment, permitted exemptions in case of force majeure or for work in the public interest;² these exemptions were frequent and seem to have been applied for without due cause.³

It has been intended that exceptional hours should be permitted only in carefully considered cases, and one of the duties of the medical

¹ Bulletin of the International Labor Office, Vol. XV (German edition), Nos. 1 and 2, p. 15.

² Law of July 7, 1907, No. 489, on Weekly Rest, Art. 3, par. e (Nuovo Codice del Lavoro, Prof. E. Nosedo, Milan, 1913, p. 418).

³ La Confederazione del Lavoro, Mar. 16-June 1, 1916, p. 435.

inspection of industry and labor, instituted in January, 1915, has been to give judgment on exemptions. On the other hand the budget and staff for factory inspection have been greatly reduced each year, although the police have to some extent supplemented the work of the few trained inspectors remaining.

Physicians and working men and the official advisory body, the comitato permanente del lavoro, have entered protests against the war exemptions, and the Government has referred frequently to the importance of safeguarding the health of women. In October, 1916, the central committee on industrial mobilization authorized the regional committees on industrial mobilization to prescribe standards of hours which would restore the safeguards of the labor law, but apparently this effected no immediate change, for several weeks later protests were again made by deputies and socialists. Definite measures have now been taken to secure obedience to the labor law in all auxiliary establishments.

Bolletino dell' Ufficio del Lavoro, Fortnightly Series, Sept. 16, 1914, p. 190, and Bulletin of the International Labor Office, Vol. X, p. 73 (summarized).

The royal decree of August 30, 1914, gives authority for the suspension of the existing prohibition of night work for women and children in the following cases, until further notice:

(1) Ministry for agriculture, industry, and commerce may suspend prohibition where necessary in regard to work carried on directly for the state or where other indispensable requirements of public interest make it necessary.

(2) Provincial prefects after hearing the competent district authority for industrial and labor inspection may suspend prohibition in event of force majeure, which causes an interruption of employment not to be foreseen and not recurring at regular intervals.

Bolletino dell' Ufficio del Lavoro, Fortnightly Series, Mar. 16, 1915, p. 72 and Bulletin of the International Labor Office, Vol. X, p. 146 (summarized).

A royal decree of March 7, 1915, providing for the manufacture of one kind of bread only, states (sec. 7) that the prefects shall see that where the necessity is recognized, derogations from the regulations in force, relating to night work for bakers and to Sunday and holiday rest shall be allowed.

Bolletino dell' Ufficio del Lavoro, Fortnightly Series, July 1, 1915, p. 16, and Bulletin of the International Labor Office, Vol. X, p. 244 (summarized).

Decree of the lieutenant general (No. 889, June 13, 1915) respecting derogations from the act relating to the work of women and children, in favor of the children of soldiers recalled to, or retained with, the colors.

This decree orders that the educational requirements for the employment of children be suspended in the case of children 12 to 15 years of age who are sons of soldiers, "without prejudice to the prescribed supplementary instruction." The authority issuing the book permitting the child to work must insert a note that it has been issued according to this decree.

In June, 1915, applications for suspension of night work prohibition were encouraged by a ministerial circular exempting them from the stamp tax.¹

Hints are not wanting of a breakdown of the labor law in matters not covered by the decrees cited or by previous laws, and it is stated by La Confederazione del Lavoro that the ministry permits exemptions "without even consulting the permanent committee on labor."²

Infractions of the law were no doubt encouraged by the reduction of the budget for factory inspection and by the absence of inspectors who had been called to the colors.

Italia, Camera dei Deputati, Previsione dell' Entrata e della Spesa, Budget Bills for 1914-15, 1915-16, 1916-17, p. 45 of each.

The item for factory inspection and special investigations (Statistica e Lavoro) in the budget of the ministry of agriculture, industry, and commerce, has been as follows:

	Lire.
Budget bill, 1914-15.	160, 000
Budget bill, 1915-16.	97, 000
Budget bill, 1916-17.	58, 200

"Social legislation on vacation" in *La Confederazione del Lavoro*, August 1, 1916, p. 494.

We, and those who with us have really cared for the legislative protection of the workers, have always deplored that the inspection of industry and labor was made up of an exceedingly scanty number of employees who were obliged to fulfill an infinite number of duties—study, investigations, etc.—and so were unable to develop the active work of enforcing the labor laws. Now, while the employees of the inspection ought—according to the law and the regulations relating to its application—to be 77, they have been reduced in consequence of the calling to the colors of so many to 17 thus assigned: One chief medical inspector; 3 district chiefs in place of 7; 4 inspectors instead of 23; 7 assistant inspectors where there should be 25; 2 junior clerks in place of 21. * * * Altogether the employees in the service are 22 per cent of the required number.

As early as September, 1914, the comitato permanente del lavoro urged that the standards of the labor law be so far as possible maintained by wise regulation of work and that exemptions be issued only with the utmost caution.³

It seems to have been in recognition of the danger of abrogating the safeguards of labor that the medical inspection of industry and labor was instituted in January, 1915, by the minister of agriculture, industry, and commerce, under the direction of Prof. Giovanni Loriga, with the collaboration of Prof. Luigi Carozzi, to apply hygienic

¹ Circular of June 30, 1915, No. 5538, referred to in Boll. dell' Ufficio del Lavoro, Fortnightly Series, July 1, 1915, p. 159.

² La Confederazione del Lavoro, Milan, Apr. 1, 1915, p. 93, and leaflets issued by the Group for Medical Propaganda in War Time, No. 9 in *Il Lavoro* July 31, 1915, p. 221.

³ Comitato Permanente del Lavoro, meeting of Sept. 10-11, 1914, "Order of the day" in *Il Lavoro*, Sept. 30, 1914, pp. 286-7.

and sanitary regulations, to give judgment on exemptions, etc., and to investigate sanitary and hygienic conditions of labor.¹

In July, 1915, the public-health experts of the group for medical propaganda in war times appealed to all good Italians in the name of patriotic duty to do all they could to mitigate the inevitably evil effects of the infractions of the labor law.

Leaflets issued by the Group for Medical Propaganda in War Time, No. 9, in Il Lavoro, July 31, 1915, p. 221 (extract summarized).

Women are now admitted to night work in certain industries. The evil effects of night work on the female organism are well known—the consequent predisposition to blood troubles and to diseases of the digestive and nervous systems. These women are serving the State; they should be safeguarded and supervised by committees.

Sons of soldiers called to the colors are admitted to work at 12 years of age, even if unprovided with the proper certificates of instruction. Records must be kept for their health and for school attendance after the war. Where here and there in small centers night work in bakeries has been permitted, the civic committees in cooperation with doctors must inform themselves how best to guard the workers' health.

The importance of safeguarding the health of women workers was recognized by the under secretary of arms and munitions in his second circular (Sept. 28, 1916) urging the substitution in munition plants of women and boys for men of military age.

Comitato Nazionale per il Munizionamento, Il Lavoro Femminile nella Industria di Guerra Italiana, January, 1917. (Quotations from circular of September 28, 1916, of the under secretary of arms and munitions.)

It is imperative to remove the obstacles to a larger employment of women. * * * An important aid will be the provisions now being worked out by the central committee on industrial mobilization for regulating wages, régime of work, and social and hygienic standards. * * *

It must never be admitted that women should be employed merely as an artifice to get work done at low wages for the sole benefit of the employer.

The recruitment of women for industrial work will be facilitated in proportion to the provision of means to safeguard their morals, particularly in those transitory cases where it is necessary, owing to the exigencies of the time, to employ women on night work. * * *

Compliance with the laws made to insure decency, health, and safety from accidents—important as it is in normal times—is now more than ever necessary. * * * As soon as manufacturers show initiative and * * * adaptiveness for this new type of labor and cease to cherish preconceived opinions as to the inferiority of women's work and as to the low wages that it merits, the labor of women will respond splendidly to the utmost variety of demands.

¹ Circular of Feb. 1, 1915, of the Minister of Agriculture, Industry, and Commerce to the Prefects of the Realm in *Il Lavoro*, Feb. 26, 1915.

An urgent demand that former labor standards be restored was made in the autumn of 1916 in a memorial to the Government drawn up by the federation of labor. Like resolutions were passed by the federation of metal workers, by the Socialist deputies, by the council general of the chamber of labor in Milan, by the general legislative council of that body, by the national women's union, and the Cassa di Maternita.¹

La Confederazione del Lavoro, October 1, 1916, p. 523.

In conclusion * * * we ask:

(1) That, as regards hours of labor, the laws on women's and children's labor and on Sunday rest should be restored to full vigor, together with the proper standards of hygiene required by the exceptional conditions.

(2) That for women and boys up to 18 years the following maximum hours should be fixed:

(a) For day's work, 10 hours, with 2 hours' rest;

(b) For work in two shifts: For the night shift, 9 hours' work with 2 hours' rest, with urgent recommendation to arrange three 8-hour shifts, broken by at least one-half hour's rest; to employ male workers by preference for night work; and to try, in day work for women alone, to arrange 5-hour shifts.

(3) That the labor inspection should be restored to full force. * * *

The standards demanded in (2) a. are higher than those in effect before the war.

The under secretary of arms and munitions, Dallolio, stated in the chamber of deputies on December 15, 1916, in reply to a protest by the Socialist leader, Truati, that the central committee on industrial mobilization had devoted special attention to the problems of the female labor force in munition works and had drawn up standards to be adhered to by the regional committees of mobilization.² These standards had been discussed and voted in the meeting of October 6-7, 1916, but had not been given to the public. They were, however, reported to the *Confederazione del Lavoro* by a member of the committee and published in that organ.

La Confederazione del Lavoro, November 1, 1916, p. 559 (summarized).

The question of the labor of women in the mobilized industries was presented in a speech which referred to the concern of the under secretary of arms and munitions both as to direct means of increasing the number of women in the production of munitions and as to the renewed consideration of the moral and physical health of the workers now employed and to be employed. It brought forward resolutions passed by the permanent committee on labor, by labor organizations, by the national women's unions, and the Maternity Insurance Co., of Milan. After long discussion the committee passed a series of resolutions which include the following sections:

¹ Bolletino dell' Ufficio del Lavoro, Nov. 16, 1916, p. 171.

² Bolletino dell' Ufficio del Lavoro, Jan. 1, 1917, p. 7.

(1) *In the matter of hours:* The regional committees are authorized to prescribe (with power of appeal to the central committee) standards limiting the working day for women and children and regulating rest periods in such manner as to restore the safeguards of the old law.

(2) *In the matter of wages:* The regional committees shall see to it that wages shall be fixed for the period of apprenticeship for women and children and that this period shall be limited.

(3) *In the matter of hygiene and morals:* That the regulations of the regional committees aiming to enforce the standards indicated by the under secretary of arms and munitions on the employment of women in munition works * * * shall have an obligatory character.

(4) *In the matter of inspection:* That independently of the exemptions asked by the minister of industry, commerce, and labor, and the federation of labor, the employees of the labor inspection called to the colors and not adapted, or less adapted than others, to the strain of war shall pass into the direct control of the under secretariate of arms and munitions which will organize the inspection of mobilized factories and coordinate the work of the said soldiers with that of the other labor inspectors. * * *

The writer states that arrangements are in progress between the under secretariate of arms and munitions and the ministry of industry, commerce, and labor to limit exactly their respective fields of action in the matter of inspection, and that the other requests formulated in the resolutions will take effect at once after the meeting of the central committee of industrial mobilization at which the minutes of the meeting of October 6-7 are approved.

In February, the under secretariate of arms and munitions ordered the restoration of the weekly rest day in establishments working for the national defense except in special cases for which individual permits might be secured. And in March the under secretary Dallolio, in reply to a question from a Socialist deputy gave emphatic assurance that the conditions of labor in munitions plants were matters of deepest concern to the Government.

Bolletino dell' Ufficio del Lavoro, Fortnightly Series, March 16, 1917, pp. 51, 52.

Circular of February 24, 1917, of the under secretariate of arms and munitions on the restoration of the weekly rest day in establishments working for national defense:

Referring to the considerations contained in the circular of December 16, 1916, No. 224783 of this under secretariate, and bearing in mind the answers sent by the regional committees on industrial mobilization and the opinion given at various times by the competent office of the ministry of industry, commerce, and labor, the timeliness now seems beyond dispute of restoring * * * the weekly rest of an entire day, since, now that industry has passed through the period of feverish adjustment that characterized the second half of 1915 and a large part of 1916, such a provision while not diminishing the intensity of production will indubitably aid in maintaining the health of the workers and so aid continuity of production.

Taking into account however, the propriety of leaving some liberty of action to the regional committees because of the diversity of con-

ditions in different factories and districts, the under secretariate decides as follows:

1. From March 15 next all authorizations of Sunday and holiday work, granted beyond existing provisions of the labor law shall be canceled with the exception of absolutely exceptional cases, which the regional committees in agreement with the committee of standards for artillery (Commissione di Cellaudo di Artiglieria) believe necessary to continue.

2. As it is impossible to exclude absolutely the possibility that in some establishments the need may still be proved of a very brief use of Sunday and holiday work, it remains established that for the plants now having authorization for Sunday and holiday work (annulled by the present circular) such very brief use of it may be in future directly authorized time by time by the same committee who will keep note of such authorizations and communicate them every two months * * * to the central committee.

The restoration of Sunday rest will of course be subordinate to the prescriptions of circular of January 8, 1917, No. 352739, in regard to the substitution of shifts of rest for Sunday rest, and the displacement and reduction of the hours of service of the industries, and it is not the purpose of the present circular to establish for industries of continuous processes any different regulation than that of the legislative provisions now in force.

Bollettino dell' Ufficio del Lavoro, March 16, 1917, pp. 49, 50.

Report of the Chamber of Deputies, session of March 14, 1917:

Gen. Dallolio in answer to the Honorable Turati set forth provisions adopted and efforts made for the protection of women and children in auxiliary establishments and for a more rational organization of employment at present and after the war, and assured the Chamber that these problems of social order were the deep concern of the Government and formed the object of his most constant care. * * *

In this connection he was glad to express the most lively encomium on the patriotic zeal shown by the women workers of the auxiliary establishments and gave assurance that the Government had but one object (in the matter)—so to act that the workers in the auxiliary establishments should labor with zeal and satisfaction to provide the country with the means necessary for its defense.

A decree of March 15, 1917, extended the powers of the regional committees to establishments not auxiliary, if their work concerned the production of arms and munitions. The committees could prescribe limitations of hours of work; inspection service for hygiene and sanitation was to be organized.

In accordance with this decree regulations were issued in April by the under secretariate of arms and munitions. These regulations limited the working hours of women and young persons to 60 a week "since the excessive prolonging of the hours of labor * * * is in the end of more disadvantage than advantage to production." They also forbade the employment on night shifts of children under 18 and, except in absolutely exceptional cases, required the

granting of one day's rest in seven. These regulations do more than reestablish prewar labor standards; in some respects the standards are even higher than those demanded before Italy entered the struggle.

Decree of the lieutenant-general, March 15, 1917, No. 570, establishing new rules in addition to the regulations for industrial mobilization, in Bollettino dell' Ufficio del Lavoro, Fortnightly Series, June 1, 1917, pp. 96, 97.

CHAPTER VI.

ART. 31. The regional committees have power to prescribe limitations of hours, and rest periods in the establishments under their jurisdiction.

ART. 32. It is within the powers of the regional committees to issue directions for the hygienic protection of the labor force, and especially of women and children.

ART. 35. The powers conferred on the regional committees by the present chapter are extended for the duration of the war to the establishments not auxiliary whose work concerns the production of arms and munitions.

CHAPTER VII.

ART. 36. Under the ministry of war, under secretariate of arms and munitions, an inspection service is organized for hygiene and sanitation in auxiliary establishments.

ART. 37. The purpose of said service is to * * * aid the agencies of industrial mobilization in the prescription and application of rules for the protection of the health of the workers.

Circular No. 409813 (Apr. 30, 1917) of the under secretariate of arms and munitions for the protection of the labor force of women and young persons in Bollettino dell' Ufficio del Lavoro, Fortnightly Series, June 1, 1917, pp. 97, 98.

It is the chief purpose of this under secretariate that the existing laws for the protection of labor, and especially those on the labor of women and children and on the national maternity insurance, should always be observed in the establishments under the jurisdiction of the committees.

With due regard, moreover, to the special nature of the heavy labor involved in the making of munitions, and to the unusual fatigue to which the women and young persons employed may be subjected in this period of intensive production, it is considered necessary that, for the execution of the new provisions made in the decree of March 15, 1917, No. 570, the following regulations should be observed:

Since the excessive prolonging of the hours of labor, if done in normal times, is in the end of more disadvantage than advantage to production, especially when it is a question of a labor force of women and young persons, the working hours of women of whatever age and of children must not as a rule exceed 60 hours per week.

Women under 18 and children must not be permitted to work on night shifts, and on these shifts the hours of labor must not exceed 10 for women.

With the circular of February 24, 1917, No. 317764, this under secretariate restored the requirement of weekly rest for an entire day. We reaffirm on this occasion that exceptions to this provision shall be permitted only in absolutely exceptional cases.

The frequent tendency to reduce rest periods overmuch must be resisted with energy, especially in the night shifts. * * *

It is recommended that even adults, before their admission into the plants, be subjected to medical examination with the double purpose of determining their physical fitness and of avoiding spread of disease, such provision being made necessary for adult women who are not obliged to present employment books, by reason of their inferior physical resistance.

The employment of pregnant women is forbidden during the last month of pregnancy and for the first month after the birth.

NETHERLANDS.

Much of the country was placed under martial law¹ at the outbreak of the war and this empowered the military authority to order the suspension among other laws of the general labor act (*Arbeidswet*), the safety act (*Veiligheidswet*), and the laws regulating dangerous and unhealthy trades (*Hinderwet*) as authorized by the martial law act of May 23, 1899 (*Staatsblad*, 1899, No. 128). The military commanders granted temporary exemptions to limits of hours in some plants running on war orders and permitted night work in three textile mills. All these exemptions on war orders had expired or were canceled by November 1, 1915, except one which ran until December 1, 1915.

Centraal Verslag der Arbeidsinspectie in het Koninkrijk der Nederlanden over 1915, pp. 82 and 83 (summarized).

In a certain lace and trimming factory the owner after promising to arrange no longer shifts than from 7 a. m. till 9 p. m. continued regularly until 10 p. m. or even 1 a. m. Thereupon the commander ruled that "female persons" may work only between 7 a. m. and 9 p. m. and the men between 6 a. m. and 9 p. m., and that a rest of at least two hours during this period should be allowed.

[According to the labor law of 1911, art. 6, young persons and women may not work in an industrial plant more than 10 hours a day nor 58 hours a week, nor between 7 p. m. and 6 a. m.]

A quite different character had the suspension of the labor law in three textile mills at the end of 1915 and in the beginning of 1916. There were in Twente hundreds of unemployed textile laborers who had worked in Germany before the war. In order to give them employment arrangements in two shifts were made by the manufacturers in two places without going beyond the limits of the labor law. In a third town, however, the manufacturers objected, declaring that they could not employ a second shift during the legal hours; so the labor law regarding night shifts was suspended.

RUSSIA.

Not until March 9/22, 1915, did Russia provide for any emergency exemptions from the labor laws protecting women and children. On this date the Tsar, in accordance with a resolution of the

¹ Decree of Aug. 10, 1914 (*Staatsblad* No. 406), Law of Oct. 16, 1914 (*Staatsblad* No. 491), and other decrees.

ministerial council, issued a decree, "temporarily to amend and supplement the legal provisions in question [concerning night and underground work by women and by young persons under 15 years in coal mines] until the conclusion of warlike operations."

*Bulletin International Labor Office, Vol. X, p. 381.*¹

Persons of the female sex and such young persons of the male sex as have not reached the age of 15 years shall be admitted to work at night and underground in the coal mines of European Russia, subject to the observance of the following rules:

(1) Young male persons shall not be employed in underground work in the daytime for a period exceeding 8 hours, or at night exceeding 6 hours, in 24, subject to the condition that in the course of the working day following after night work young persons shall not be readmitted to work for a period of 12 hours from the cessation of such night work.

(2) Persons of the female sex having been employed at night shall not be employed again earlier than midday on the day following the night work.

(3) Persons of the female sex and young male persons shall only be admitted to night and underground work on condition that they are first shown, by an examination undertaken for the purpose by the mines medical officer, or where there is no such person, by the rural or municipal medical officer, to be suited, from the point of view of their strength and health, for the said work. And—

(4) It shall rest with the local mining authorities, in agreement with the governors concerned, to issue special lists of processes in which persons of the female sex and young persons may be employed.

On October 19/November 1, 1915, an imperial decree provided for the granting of special exemptions to the laws regulating the hours of women and young persons in factories working for the national defense. It does not permit the employment of children below the legal age limit.²

Collection of working regulations issued in accordance with article 87 of the fundamental laws of the Russian Empire. Third supplement to the collection issued in the year 1913, Petrograd, 1916, pp. 166, 167.

The imperial decree of October 19, 1915:

The minister of commerce and industry is given the authority to permit to factories, mills, and establishments connected with mining and subsequent processes producing articles necessary for State defense, exemptions from articles 64, 65, 68, 74, 75, and 194-200 of the statute on industrial work regulating the work of women and persons under 17 years of age, the length of the working day, and distribution of hours in the above establishments, by issuing special rules.

[Articles 64-65, 68, 74, 75, and 194-200 of the statute on industrial work regulate the hours of women and young persons 12 to 15 and

¹ The original law is given in the collection of working regulations issued in accordance with article 87 of the fundamental laws of the Russian Empire: Second supplement to the collection issued in the year 1913, Petrograd, 1915, p. 39.

² The London Times of June 16, 1917, states that "Female children's night work has been abolished in Russia." No other information on this point has been received.

15 to 17 years of age; forbid night work and Sunday work to the above workers, with certain exceptions; and provide schedules of hours and holidays for all employees.]

No information is available about the administration of these exemptions or the frequency with which they were granted. The only note of protest against child-labor conditions is found in a conference on the care of children where legislative measures were discussed and it was considered desirable to raise the age limit for factory work from 12 to 14 years, to reduce the maximum hours for children ¹ to 6 per day, and to prohibit night work and factory work detrimental to the health of children.²

SWITZERLAND.

Under the authority of the general emergency decree of August 3, 1914, the Federal Council on August 11, 1914, stated that derogations from the labor laws affecting women and children might be permitted in special cases where this is the sole means of enabling work to continue.

Recueil Officiel des Lois et Ordonnances de la Confédération Suisse, N. S. Vol. XXX, 1915, p. 347 (summarized).

The Federal order of August 3, 1914, is a general proclamation on neutrality and measures of security. The Federal Assembly gives unlimited power to the Federal Council for the taking of all measures necessary for the maintenance of the security, integrity, and neutrality of Switzerland, for the safeguarding of the credit and economic interests of the country, and in particular of the people's food supply.

Bulletin of the International Labor Office, Vol. X.

Page 75. Circular letter from the Federal Council to all the Cantonal governments on August 11, 1914, relating to the temporary authorization of exemptions from the factory act, says in part:

In pursuance of section 3 of the Federal decree of August 3, 1914, we therefore authorize you to allow factories to introduce, during the continuance of the present conditions, a system of working which derogates from the provisions of the factory act, more especially as regards working hours, night and Sunday work, and the employment of women and young persons.

This authority shall apply to cases where this is the only possible way of continuing the work.

The orders of the competent Federal authorities shall apply to the factories of the Confederation.

Page 76. Circular letter from the Swiss industrial department to all the Cantonal governments, on August 29, 1914, relating to the temporary authorization of exemptions from the factory act, says in part:

The circular letter of August 11, 1914, * * * does not seem to have been everywhere correctly understood.

¹ Age not given; probably up to 15 years, as the present law allows an 8-hour day for persons 12 to 15 years old.

² Russkiia Viedomosti, Mar. 21/Apr. 3, 1916.

We therefore find ourselves compelled to emphasize the point that, in virtue of the decree referred to, exemptions from the factory act are only allowed if they are sanctioned by you, and that such authorizations are only to be granted if this is the sole means of enabling an undertaking to continue working. It refers more especially to those cases when it is impossible to replace absent skilled workers. * * * Exemptions from the factory act shall be refused to factory owners who are able to keep their undertakings in operation, and even to meet exceptional orders, by engaging unemployed workers. * * *

In November and December, 1915, the Federal authorities specified in detail the exemptions which might be allowed by the Cantonal governments or by the district or local authorities. They do not include permits for night work by girls under 18 years of age and boys under 16, for Sunday work by women and young persons, or for the employment of children under 14 years old. Whether such exemptions had been granted under the earlier orders is not clear from the terms of the November circular.

Bulletin of the International Labor Office, Vol. X, pp. 384, 386 (summarized).

A Federal resolution and a circular of the Federal Council to all Cantonal governments were both issued on November 16, 1915, on "permission to organize work in an exceptional manner in factories." The circular states in part:

"As we have been able to ascertain from the reports of the factory inspectors, the Cantonal governments have allowed exemptions from the act * * *. Not only when, as we said, the undertaking could be continued only by this means. * * * We rely on the perspicuity and uprightness of the Cantonal governments and their officials to see that permission to work in a manner contrary to the ordinary conditions of work shall only be given when this is absolutely necessary and unavoidable. It would be well also to examine the reasons for the applications closely and to inquire into the possibility of satisfying requirements by different means. In this connection care should be taken in particular, not to allow overtime in cases where the necessary production might be secured by taking on further available workers."

The exemptions which may be granted to factories collectively in pursuance of the factory act by the Cantonal governments or by the district or local authorities are:

(a) The extension of the 11-hour working day on not more than 80 days annually by not more than 2 hours a day for persons of both sexes over 16 years of age.¹

(b) The extension of hours of work annually on not more than 12 days preceding Sundays and holidays (9 hours only permitted by factory law).

(c) Work on not more than 30 nights annually for men 18 years of age and over but in no case for women.²

¹ Federal law on factory work of Mar. 23, 1877, in *Recueil Officiel des Lois et Ordonnances de la Confédération Suisse*, N. S. Vol. III, 1879, p. 224, ff. Secs. 11, 15, 16.

² *Ibid.*, secs. 13, 16.

(d) Work on not more than 12 Sundays annually for men 18 years of age and over but in no case for women.¹

In these cases the Cantonal governments may require payment of 25 per cent additional wages for this overtime work.

The exemptions which may be granted by the Cantonal governments to individual factories are:

(a) To employ women over 18 and male persons over 16 at night.

(b) To organize work in shifts and work without interruption by day (this system with moderate hours is preferred to allowing overtime to an excessive degree).²

(c) To reduce the midday break to less than one hour.

(d) To extend overtime, Sunday, and night work beyond the limits specified in the exemptions allowed to factories collectively.

In these cases the payment of 25 per cent additional wages is required for all overtime work and 50 per cent additional for all night or Sunday work.

The Federal factory inspector is to be notified of all exemptions allowed and the department may revoke or limit exemptions. Current exemptions contrary to these provisions must be brought into conformity with them by December 15, 1915, or withdrawn altogether.

Bulletin of the International Labor Office, Vol. XI, p. 54 (summarized).

A Federal resolution and a circular of the Swiss department of national economy to all Cantonal governments, on December 6, 1915, are concerned with the same subject. They replace the provisions concerning payment for overtime by the requirement that 25 per cent increase shall be paid for all overtime, Sunday, or night work. The circular states again that no permits should be issued where they might restrict the possibility of other workers securing employment.

The only protest against the granting of exemptions referred to in the official circulars is a petition from the Swiss Federation of Trade Unions, mentioned in the circular of December 6, 1915, which urges that "even during the war, deviations from the provisions of the existing factory act should not be allowed in any case." The Government asks the Cantonal governments to report in February, 1916, on the enforcement of the resolution of November, 1915, and to state whether its retention is still needed. Organizations of employers and workers will also be requested to express their opinions on this point.³

¹ Federal law on factory work of Mar. 23, 1877, in *Recueil Officiel des Lois et Ordonnances de la Confédération Suisse*, N. S. Vol. III, 1879, p. 224, ff. Secs. 15, 16.

² Circular of the Swiss Federal Council to all Cantonal governments respecting permission to organize work in an exceptional manner in factories, dated Nov. 16, 1915. *Bulletin of the International Labor Office*, 1915, Vol. X, p. 387.

³ *Bulletin of the International Labor Office*, Vol. XI, p. 56.

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